

8584

REPORT
ON THE
FOREST ADMINISTRATION
OF THE
CENTRAL PROVINCES
FOR THE YEAR.
1916-17

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No 186, dated Simla, the 3rd April 1918.

File No. 84 of
1918.

From—A. E. GILLIAT, Esq., I.C.S., Under Secretary to the Government of India,
Department of Revenue and Agriculture,

Serial No. 2.

To—The Hon'ble the Chief Commissioner of the Central Provinces.

I am directed to acknowledge the receipt of the Hon'ble Mr. Dyer's letter No. 26-A.—XV., dated the 1st March 1918, forwarding copies of the Report on Forest Administration in the Central Provinces for the year 1916-17, together with the resolution of the Chief Commissioner thereon.

2. The Government of India note with satisfaction the general progress of work and the steady improvement in the financial results, which has been noticeable for some years past, and they endorse your appreciation of the services of the Chief Conservator of Forests and of the efforts of the Department in coping with the extra work thrown on it in consequence of the war.

3. I am to add that the Government of India consider that the new form of the report is a distinct improvement on the old practice of printing the Conservator's reports separately with a review by the Chief Conservator.

Central Provinces Administration

FOREST DEPARTMENT

Nagpur, the 5th February 1918.

READ :—

Report by the Chief Conservator of Forests on Forest administration in the Central Provinces for the year 1916-17

RESOLUTION.

Though handicapped by the absence of a large portion of the Imperial staff, the Forest Department has been able during the year not merely to maintain steady progress in the development and management of the forests but also to cope successfully with the heavy extra duties which the war has imposed on it. The report of the Chief Conservator of Forests is a record of good work performed under difficulties, and the Chief Commissioner desires to congratulate Mr. Hill and his officers on the way in which these difficulties have been met.

2. Regarding the classification of forests, demarcation, survey and the preparation of working-plans, the Chief Commissioner has little to add to what the Chief Conservator says, but he would like to emphasise the importance of the work, which Mr. Hill mentions as now being done in Seoni, of the Forest Department and the Settlement staff co-operating to remove all discrepancies between the forest and village maps. The question affects all districts. Discrepancies are often merely paper ones arising from the forest and revenue surveys having been carried out by independent agencies, but real differences do exist, due either to one or other of the maps being wrong or to the faulty cutting of fire-lines on the ground, and they have in the past been a source of friction. Sir Benjamin Robertson therefore desires that at all settlements the verification and, where necessary, the reconciliation of joint forest and village boundaries should receive careful attention. The Chief Commissioner notices that the revised working-plans of the South and North Raipur Divisions are now ready and will shortly be submitted for sanction. Developments in the way of supplying the villages of the Chhattisgarh plain with fuel and small timber are very necessary, and it is trusted that progress can be made in this direction when the new working arrangements are introduced.

3. The war has brought home the importance of the forests in a way that was not fully realized before, and Sir Benjamin Robertson regards it as very false economy, even in a time of financial stringency, to starve them of the money which is essential for their exploitation in the interest of the country; and the ever increasing gross and net income they yield is full justification for incurring this most productive form of expenditure. During the year Rs. 81,933 more than in 1915-16 was spent on conservancy and works, the money being devoted to construction of communications and buildings and to other improvements.

The surplus revenue amounted to over 16 lakhs, although no charge was made for grass supplied for military requirements. In the past six years the surplus revenue has been more than doubled, the return for 1911-12 having been under seven and three-quarter lakhs.

4. The amount spent on communications is more than double that of last year, when the figure was abnormally low, and almost all the money spent on new works was, the Chief Commissioner is glad to observe, devoted to regular cart roads. The increase of such roads and the development of the general scheme of communications in the Province must for some time remain the chief method of facilitating the putting of forest produce on the market. The question of a service of Forest Engineers was raised during the year by the Government of India, but the Chief Commissioner has given it as his opinion that the nature of the Central Provinces forests is such that, while the deputation of an expert to examine the more important of them with a view to introducing more advanced methods of exploitation is a measure he would welcome, he is unable for the present to hold that the services of a special Engineer or Engineers are necessary.

In buildings there has also been a considerable rise in expenditure, due to past economy. Four-fifths of the new expenditure has been on the housing of the subordinate staff, but much still remains to be done in this direction. The Chief Commissioner regards this as an important part of the policy of development, as proper accommodation is essential for a contented staff, without which progress must be hampered.

5. The provision of water for cattle in dry grazing areas, to which reference was made in last year's Resolution, has received adequate attention. The experiments carried out with the damming of streams in the Nimar and Melghat Divisions are promising, and the Chief Commissioner has directed that this method should be tried in other Divisions where water is scarce, with a view to its general adoption where conditions permit. The experiments show that, provided proper care is taken in the selection of the site, an effective water-supply can be obtained throughout the hot weather at a trifling cost.

6. The total number of forest offences was almost the same as in the previous year; cases of unauthorised grazing increased by 480, while under the other chief heads there was a decline. Numerous reasons are assigned for local fluctuations, the most interesting being that military grass work, by withdrawing the staff from their regular duties, prevented the detection of offences. The Chief Commissioner notices that the number of cases in which rewards were given for the detection of offences was double the previous year's figures. He would repeat what he said two years ago that circumspection is needed in this respect, as the practice is obviously susceptible of abuse.

7. Mr. Hill's account of the results of fire protection is highly satisfactory. At a less cost than in 1915-16, the percentage of success has risen from 97 to 99 and the area burnt has fallen from 263 to 92 square miles. The rain in the hot weather months was favourable to saving the forests from fire, but the good results may also be attributed to the policy of excluding less valuable areas from regular protection and bringing them under the system of early burning, which is now reported to be generally well understood.

8. Except in Yeotmal, where the introduction of a new working-plan naturally caused a certain amount of initial discontent, which was partly justified and was allayed by modifications which experience of working showed to be called for, but which in certain cases was found to be engineered, the grazing rules appear to have worked smoothly on the whole. It is probable that they are now coming to be better understood, although their complexity, as remarked in last year's Resolution, is a drawback, which is almost inseparable from the grant of favoured rates to agriculturists. There was a small decline in the total number of animals grazed, for which many reasons, some economic and some seasonal, are given. More than half the animals grazed at less than full rates, a concession which, judged by the sum which would have been received had full rates been charged for all animals, amounted to as much as ten lakhs of rupees.

9. Mr. Hill gives an interesting account of the technical side of the Department's activities. The Chief Commissioner recognises the zeal with which he and

efforts to supplement the tanning materials of the Empire are of great importance, and the success of the Department in meeting the demand made in January for 20,000 tons of hay for the Army reflects the greatest credit on all concerned. The names of the officers who did good work in this connection have already been brought to the notice of the Government of India. Success was attained by the close co-operation of the Forest officials with the District authorities, and Sir Benjamin Robertson is confident that in the current year, when the needs of the Army have risen to over 70,000 tons, the Department will achieve equally good results.

10. The Chief Commissioner desires to acknowledge the attention which is constantly given, under Mr. Hill's guidance, to the wants of the people in so far as these can be met consistently with the proper preservation of the forests. In the previous year it was brought to light that serious discontent had been raised in the Damoh Division by certain ill-considered action which had been taken with a view to safeguarding and increasing the revenue. This state of affairs has now been put to rights, and the large reduction of 3,311 in the number of animals impounded in the Northern Circle, which is referred to in paragraph 13 of the review, is, the Chief Commissioner believes, an index of the altered methods which have been adopted in Damoh. The introduction of new working-plans has necessitated in several districts the limitation of animals admitted to graze in the forests. Sir Benjamin Robertson observes that in the Nagpur Wardha Division, where this problem was a particularly difficult one, the reduction has been carried out without exciting any complaints, a result which is particularly creditable to the Divisional Forest Officer, Rao Bahadur Shrinivasulu Naidu. In Saugor the question has arisen of the people finding it difficult to obtain their requirements owing to the sale of standing coupes to contractors. This is a matter which is likely to arise elsewhere and the Chief Commissioner desires that in each case it should receive the attention of the District and Forest Officers.

11. The recent increase in the pay of the subordinate Forest establishment has not so far brought about much improvement in the class of men recruited, and it is still found difficult to retain men in the service or to obtain from them satisfactory work. The experiment which is being made in the Nagpur-Wardha Division of training Forest guards in their duties is on the right lines, and if it proves successful, it should be taken up in other Divisions. It might then be possible to grant a special increment to guards who take the course and obtain certificates after passing through it. Sanction has recently been given to revision of the pay of Range clerks. A reform which is hardly less pressing is the offer of better emoluments to the clerical establishments of Divisional Officers, a matter which the Chief Conservator has under his consideration.

12. To Mr. Hill, the Conservators and the officers whose names are mentioned in the report, the Chief Commissioner tenders his thanks. He knows that the success which has been attained in the year, especially in the extra work which the war has thrown on the Department, has been achieved only by strenuous efforts on the part of the superior staff. He deeply regrets the death of Mr. J. Donald, Deputy Conservator, while on military duty, in whom the Forest Service has lost a promising officer; also of Mr. C. V. Sarvate, Extra-Assistant Conservator, who had done good work for many years in Saugor. Rao Bahadur S. G. Paranjpe, Extra-Deputy Conservator, retired during the year on an invalid pension, after having held charge of the Jubbulpore Division and having throughout his career rendered thoroughly efficient service to the Administration.

ORDER.—Ordered that a copy of this Resolution be submitted to the Government of India, Revenue and Agriculture Department, and that a copy be forwarded to the Chief Conservator of Forests and to the Conservators of Forests, Northern Circle, Southern Circle and Berar Circle, for information and guidance; also, that it be published in the Supplement to the *Central Provinces Gazette*.

J. F. DYER,
Third Secretary to the Chief Commissioner,
Central Provinces.

REPORT ON THE FOREST ADMINISTRATION OF THE CENTRAL PROVINCES FOR THE YEAR 1916-17.

1 With the continued absence of one-third of the Imperial Staff on Military Service and a sudden call in January by the Army Department for 20,000 tons of hay, the energies of the Department were somewhat severely taxed during the year under review. Notwithstanding the disabilities necessarily attendant on the prevailing conditions, considerable progress on more or less normal lines was maintained, as will be seen from the following sections on the different branches of Forest Administration compiled from the reports of the Conservators of the three Circles.

The revenues were well maintained, the gross revenue being in excess by Rs. 1,89,840 as compared with the preceding year and Rs. 5,20,533 compared with the average of quinquennial period immediately preceding the year under review.

The surplus amounted to Rs. 16,19,913 as against Rs. 15,25,729 in 1915-16 and Rs. 10,20,490 of the five years' average. The details of the operations taken to supply the hay mentioned above for the Overseas Forces are shown in a supplementary chapter. It may be mentioned here that the Hon'ble the Chief Commissioner agreed to the supply of the grass free of all royalty.

It has been decided, however, in respect to other supplies such as tan stuffs, timber, etc., that royalty should be charged, not so much with the object of increasing the Forest revenues, but to show the commercial possibilities of various products, particularly tan stuffs, whose potentialities in regard to post-war developments might be obscured if they were extracted under unusual conditions. Commissioners and Deputy Commissioners have, as usual, in forwarding the Divisional Reports made several interesting remarks and suggestions, and these will be considered by the Chief Conservator and Conservators when visiting the Divisions to which they refer.

AREA AND CLASSIFICATION.

2 In Form No 7 are shown the details of the changes that occurred in the areas of State reserved forests in the three Forest Circles during the year under review. The net result of these changes was a gain of 6 square miles (4,061 acres). While the areas of State forests in the Northern Circle remained practically the same as last year, there being a reduction of 246 acres only, the areas in the Southern and Berar Circles increased by 5 and 1 square miles, respectively. The increase in the Southern Circle occurred almost entirely in the South Raipur Division, where, on a reference from the working-plans officer, a recalculation was undertaken by the Forest Map Office, Dehra Dun, of the areas shown on certain 4" survey sheets, which disclosed inaccuracies in previous returns. In the Berar Circle, apart from the mutual gain and loss of 50 square miles due to interchanges of area between the A and C class forests, the former class of forests increased by 5 square miles owing to transfers from G and H lands and exchanges of areas, while the C class forest showed a decrease of 4 square miles, due almost entirely to disforestsments.

The increases and decreases in the areas fell under the following heads :—

	Gain (acres).	Loss (acres).
Afforestsments and disforestsments	510	2,706
Transfers from G and H lands	2,636	...
Correction of areas	17,188	14,505
Exchanges	2,495	1,435
Boundary rectification	4	53
Revision of Rewah State border	46	119
Total	22,879	18,818
Net increase	4,061	

The areas of several classes of State forests at the beginning and the close of the year compare as follows :—

		Area on 1st July 1916 (square miles).	Area on 30th June 1917 (square miles)
Central Provinces (proper) ...	A class ...	15,700	15,705
	B class ...	625	625
Berar (proper) ...	A class ...	2,265	2,317
	C class ...	1,076	1,025
Total ...		19,666	19,672

The proportion of the total forest area to the total area of the Provinces remained the same as last year, namely, one-fifth.

The area under the management of the Irrigation Department increased by 1 square mile at the close of the year (from 21 to 22 square miles) and that under the management of the Public Works Department remained the same as last year, *viz.*, 1 square mile.

FOREST SETTLEMENTS.

3. Out of the 9 12 square miles under settlement at the commencement of the year, 0·09 square mile was found to be incorrect and written off. Thus the actual area remained to be settled was 9 03 square miles. An additional area of 8 08 square miles was taken in hand during the year, and out of this total area of 17 11 square miles, 8 77 square miles were finally settled, 0 50 square mile was transferred to E class, and for an area of 0 60 square mile it was decided that it should not be notified as reserved forest, thus leaving a balance of 7 24 square miles to be settled at the close of the year. As usual, in all cases the Deputy Commissioners of the districts concerned acted as Forest Settlement Officers and hence no special expenditure was incurred.

DEMARCATATION.

4. The total length of boundaries at the close of the year was 35,269 miles against 35,345 miles at the beginning, a reduction of 76 miles. While there was an increase of three miles in the Southern Circle due to the demarcation of certain plots of malguzari lands in the South Raipur Division, the Northern and Berar Circles showed decreases of 15 and 64 miles, respectively. The reduction in the former Circle took place in the North Mandla and Saugor Divisions and was due to changes in forest areas and exchanges of lands. In the latter Circle the decrease occurred mainly in the Yeotmal and Betul Divisions. While changes in the forest areas resulted in a reduction of 15 miles in the Yeotmal Division, in the Betul Division it was found that 42 miles of boundary of areas previously disforested was still shown on the registers. A decrease of 7 miles occurred in the Akola Division owing to disforests. In all 133 miles of new boundary was made during the year, Northern Circle 30, Southern Circle 3, and Berar Circle 100, and was due to changes in areas. In the Berar Circle in the Yeotmal Division in anticipation of the introduction of Mr. Ley's grazing settlement in the Pusad, Kelapar and Wun Taluks for the year 1917-18 it was found necessary to demarcate the A class areas formed by proposed transfers of C, G and H class lands with a view to enabling the people to know the limits of their grazing units, and this was accordingly done. Out of the total boundary of 35,269 miles, the length of artificially demarcated boundaries was 32,036 miles, the natural boundaries not requiring artificial demarcation being 3,094 miles, and 139 miles (in the Akola and Yeotmal Divisions of the Berar Circle) remained to be demarcated. The following is the classification of work done on demarcating boundaries during the year :—

	Miles.
1. Length of lines over which all pillars were put into thorough repairs.	4,752
2. Length cleared without reference to fire protection.	7,696
3. Length checked with survey maps	2,765

The total expenditure on the demarcation work rose from Rs. 13,089 in 1915-16 to Rs. 18,399 in the year under report, an increase of Rs. 5,310, which was shared by all Circles. Out of this, Rs. 1,719 were spent on new works, and the maintenance of old boundaries cost Rs. 16,680.

It is satisfactory to note that the action taken last year in regard to the negligence, and in some cases reluctance, of Malguzars to clear half the boundary lines of their forests in the Damoh Division has had the desired effect. It is reported that previous notices were given to them through Tahsildars, and the lines were cleared in time during the year under report. In the Seoni Division the demarcation work in the past years is reported to have been unsatisfactory where, owing mainly to the incompetence of the draftsman, the maps concerning boundary alterations have been found to disagree with the actual lines as laid out on the ground, and advantage is being taken of Settlement operations now in progress in that Division to eliminate useless pillars and to settle disputed boundaries. Steps are also being taken through the Deputy Commissioner to remedy the troubles with Malguzars in this matter. The desirability of attaching any Extra-Assistant Conservator to assist in the improvement work of boundaries has been suggested for this Division, but it does not appear likely that the services of an officer will be available in the near future. In the Nimar Division a number of encroachments and discrepancies were discovered and several boundary disputes were settled.

SURVEYS

5. No survey work was done by the Government of India Survey Party in the Northern and Southern Circles. In the Berar Circle, they carried out work in part of the Melghat Division. In this Circle, surveys were also locally carried out in the Melghat and Yeotmal Divisions, where Rs. 515 was spent in all. The survey of forest villages by the agency of the local Forest Staff was continued in the Southern Circle, where 11 villages in all (7 in Balaghat, 1 in North Chanda and 3 in North Raipur) were surveyed.

Besides the above, two maps for the Raipur Working-plans were published during the year, while several others were in the different stages of preparation.

CONSTITUTION OF STATE FORESTS.

6. The following statement compares the total expenditure on the constitution of State forests during the year under review and the preceding one:—

Circle.		Year (1916-17).	Year (1915-16).	Difference
		Rs.	Rs.	Rs.
Northern	...	9,315	5,864	+ 3,351
Southern	...	5,525	3,888	+ 1,640
Berar	...	22,422	18,575	+ 3,847
Total		37,165	28,327	+ 8,838

There was an increase of Rs. 8,838 towards which all the Circles contributed. The increase in the Northern Circle is attributed to the curtailment of funds in the previous year, while the increase in the Southern Circle fell entirely under "Demarcation", where more work was done during the year in accordance with the five-year schemes than in the preceding year. In the Berar Circle the Melghat Rajas were paid Rs. 17,120 against Rs. 13,996 as compensation for forest rights; the increased expenditure under this head was due to one Raja's compensation having been withheld in 1915-16.

WORKING-PLANS.

7. During the year under review two new working-plans were sanctioned by the Local Government, one for the mixed forests of the Balaghat Division for an area of 770 square miles (680 square miles of revision and 90 square miles of new area) and the other for the entire forests of 12,000 square miles in the

1,175 square miles (693 square miles of revision and 482 square miles of new area). As regards the revised working-plans for the South and North Raipur Divisions, the Special Revenue Officer's report thereon is with the Commissioner of the Chhattisgarh Division and will shortly be submitted to the Local Government. The Conservator, Southern Circle, has discussed the plan with the two Divisional Forest Officers and has furnished the Commissioner with a note, and hopes that when orders on the Revenue Officer's proposals have been passed by the Local Government, the plans will be completed without delay. In the meanwhile the prescriptions of the two plans are being worked and experience gained. The Conservator, Berar Circle, reports that the new working-plan for the forests of the Amraoti Division is under compilation and should be ready by next year. As the introduction of the grazing settlements recommended under the proposed working-plan for the Yeotmal Division in the Yeotmal and Darwha Taluks gave satisfactory results, sanction was accorded to their extension to the remaining three taluks of the Division (Wun, Kelapur and Pusad), and the working-plan which was in course of preparation last year has now been completed and sent to Press. However, the prescriptions of the working-plan as regards fellings were carried out during the year under the new scheme in anticipation of sanction. The field work for the working-plan for the forests of the Sironcha Range of the South Chanda Division was completed during the year, and it is hoped that the preliminary report will be submitted shortly. The revision of the existing working-plans for the North Chanda Division is still held in abeyance for the reasons stated in the last year's review. As suggested by the Chief Conservator in his Inspection Note, the field work for the revised working-plan for the Wainganga Felling Series of the Markhanda Range of the South Chanda Division was undertaken during the year but was not completed.

As the rotation of fellings prescribed in the existing working-plan for the old Narsinghpur Division was found to be unsuitable and a demand had arisen in areas previously unworked, a revised scheme was prepared and submitted to the Local Government and was sanctioned. Corrections to the working-plan are being drawn up. Pending the revision of all the existing working-plans for the forests of the Seoni Division, a provisional felling scheme was in force. The Divisional Forest Officer has, however, prepared a revised provisional felling scheme to meet the altered conditions which have arisen with a very largely increased demand, and the scheme is under the consideration of the Chief Conservator (pending the approval of the Deputy Commissioner and Commissioner of the grazing proposals involved). It is highly desirable, however, that as soon as circumstances permit a proper working-plan for this Division should be drawn up.

The provisions of the sanctioned working-plans were adhered to so far as it was practicable. In the Balaghat Division the fellings in the Raigarh Range are still about three years in arrears owing to labour and transport difficulties, while two coupes in Bhandara and all the coupes of the year in the Nagpur-Wardha Division could not be felled owing to want of demand.

It is reported that the altered conditions in the Hoshangabad Division in respect of markets, communications, methods of exploitation, etc., calls for an early revision of the existing working-plans, and accordingly the Divisional Forest Officer has been collecting data, more particularly in regard to the most suitable financial rotation.

Annual plans of operations were prepared for all Divisions and were acted up to as far as circumstances and funds permitted. The Conservator, Southern Circle, points out that owing to the employment of the staff on the Army Hay Operations in the Bhandara and Nagpur-Wardha Divisions, several works sanctioned in the plans of operations could not be carried out. Similarly in the Nimar Division these operations were a disturbing factor in some ranges and led to the abandonment of the project of improving the Nerbudda River crossing, while in the Yeotmal Division labour difficulties prevented completion of some works.

The following statement shows the progress made in working-plans during the year :—

Circles	Area under sanctioned working plans					Area not under working plans			Total forest area in Form No 7 total of columns 5, 7, 8 and 9)	Revision			Expenditure on working-plans during year
	At commencement of year	Added during year.	Deduct ed during year	At close of year		Plans under preparation	Plans not under preparation			Done or required	In progress at end of year	Revised plan sanctioned during year	
				Actual area	Percentage of total forest area as shown in column 10)		equi red at present	Not required at present					
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Sq miles.	Sq miles	Sq miles	Sq miles		Sq miles	Sq miles	Sq miles					
Northern Circle	4,957		1	4,956	76	..	55	1,485	6,506				
Southern Circle	5,914	95		6,009	86	329	2	609	6,949	1,112	1,545	180	
Berar Circle	4,331	482		4,813	77	980	.	424	6,417		11	191	593
Total	15,212	577	1	15,788	80	1,309	57	2,518	19,672	1,112	1,567	1,373	593

From this it will be seen that out of the total area of State forest of 19,672 square miles, sanctioned working-plans exist for an area of 15,788 square miles, or 80 per cent, the plans for 1,567 square miles of which are in progress of revision, and revision is required for 1,112 square miles, but has not yet been undertaken. New plans are being prepared for an area of 1,309 square miles, while for an area of 57 square miles plans have still to be taken in hand, the area for which no plans are considered to be necessary at present being 2,518 square miles. These are mostly B and C class forests.

COMMUNICATIONS

8. In the following statement are compared the amount of work done and the cost incurred on communications during the year under review and the preceding year:—

Circle.	Year.	New works		Repairs.		Total cost.
		Length.	Cost	Length.	Cost.	
		Miles.	Rs	Miles.	Rs	Rs.
Northern	1915-16	98	5,918	1,174	7,973	13,891
	1916-17	188	22,387	1,229	10,128	32,515
Southern	1915-16	104	6,662	2,373	6,856	13,518
	1916-17	100	8,189	2,360	10,915	19,104
Berar	1915-16	42	4,919	1,767	8,467	13,386
	1916-17	65	23,421	2,127	14,039	38,360
Total	1915-16	244	17,499	5,314	23,296	40,795
	1916-17	353	53,997	5,776	35,082	89,979
	Difference	+ 109	+ 36,498	+ 462	+ 12,686	+ 49,184

It will be seen from the above that the total expenditure under this head for the Province as a whole during the year 1916-17 exceeds that in 1915-16 by Rs. 49,184. The increase is common to all Circles and occurred both under "New works" (Rs. 36,498) and "Repairs" (Rs. 12,686). The large increase in the Berar Circle (from Rs. 13,386 to Rs. 38,360) is attributed to the abnormal rainfall of 1916 coupled with the very small sums spent on repairs, which necessitated a larger expenditure on these works. In the Northern Circle the curtailment of funds in the previous year is stated as the reason for more expenditure

under this head, while in the Southern Circle more money was spent on roads in all Divisions except Bhandara and North Raipur. The total expenditure on "New works" amounted to Rs. 53,997 against Rs. 17,499; this amount was spent as follows:—

Rs. 49,033 on 17½ miles of regular cart roads.
Rs. 2,451 on 76 miles of bridle paths.
Rs. 2,513 on 102 miles of other paths, etc.

It is satisfactory to note that out of a total amount of Rs. 53,997 under this head, as much as Rs. 49,033 or 91 per cent has been spent on "regular cart roads". These works were mainly in the Damoh, Hoshangabad, Jabulpore-Narsinghpur and Seoni Divisions in the Northern Circle, Balaghat and Nagpur-Wardha Divisions of the Southern Circle, and Nimar and Betul and also Melghat Divisions in the Berar Circle. In the Damoh Division several of the important roads left incomplete last year were completed during the year. Two wooden causeways were constructed in the Hoshangabad Division over the Denwa and Tawa rivers, and one is reported to have been found to stand the traffic well. In the Seoni Division the work on the important Sakata-Katangi road was started. The Chindlaighat road in the Balaghat Division was completed during the year, the total cost being Rs. 4,018, of which Rs. 500 was contributed by the District Council. It appears that this road will be of more utility to the public than to the Forest Department. In this same Division, surveys and estimates were prepared for two important road schemes in the Paraswara Range. These roads when completed will, it is anticipated, result in a marked increase in revenue. Of the total outlay on "New Works" in the Berar Circle Rs. 15,650 represents the contribution made to the Betul District Council towards the construction of the Nanda-Bhainsdehi road. This road will supply a long-felt want and considerably improve the facilities for the export of bamboos and timber from the Tapti Range.

BUILDINGS.

9 The following statement compares the total expenditure on buildings, etc., incurred during the year under report and that preceding thereto:—

Circle.	Year.	New works, cost.	Repairs, cost.	Pay of mali, etc., cost.	Total.
		Rs.	Rs.	Rs.	Rs.
Northern	1915-16	4,579	8,313	184	13,076
	1916-17	16,093	10,124	255	26,472
Southern	1915-16	3,954	7,988	...	11,942
	1916-17	4,772	9,301	...	14,073
	1915-16	7,325	11,357	...	18,682
	1916-17	7,040	17,111	...	24,151
Total	1915-16	15,858	27,658	184	43,700
	1916-17	27,905	36,536	255	64,696
	Difference	+ 12,047	+ 8,878	+ 71	+ 20,996

It will be seen that the total outlay on these works rose from Rs. 43,700 in 1915-16 to Rs. 64,696 in 1916-17 or by 49 per cent. The increase occurred under both "New Works" and "Repairs" and was shared by all the Circles, especially by the Northern and Berar Circles. A total amount of Rs. 27,905 was spent on new works, of which Rs. 1,233, or 5 per cent, were spent on head-quarters houses, Rs. 3,186, or 11 per cent, on rest-houses, Rs. 22,877, or 82 per cent, on housing the subordinate establishment and Rs. 609, or 2 per cent, on other miscellaneous buildings. The increase of Rs. 11,514 in the Northern Circle has not been explained, but it is presumed that owing to the necessity for economy due

to the war, many important works withheld during 1915-16 were constructed during the year under report, as funds permitted. The Conservator, Southern Circle, points out that building works in his Circle are still seriously cut down owing to war economy. The increase in the Berar Circle was common to all Divisions, Buldana and Betul excepted. The conditions of many buildings in the Melghat and Amraoti Divisions is reported to be far from satisfactory. This is due in part to economy in the past two years, and the increased expenditure was therefore inevitable. The Divisional Forest Officer, Nimar, points out that for some time past the existing rest-houses in that Division have been in a very bad condition, but adequate repairs are now contemplated. It is also pointed out that a good deal still remains to be done in connection with the proper housing of the subordinate staff, notably in the Melghat Division.

TANKS, WELLS AND OTHER MISCELLANEOUS WORKS

10 The following statement compares the total expenditure incurred on these works during the years 1915-16 and 1916-17:—

Circle.	Year.	New works.				Repairs.				Grand total cost.
		Tanks, cost.	Wells, Jhiras, etc., cost.	Compound fencing, etc., cost.	Total cost.	Tanks, cost.	Wells, Jhiras, etc., cost.	Compound fencing, cost.	Total cost.	
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Northern ...	1915-16 ...	200	1,042	...	1,242	30	601	589	1,220	2,462
	1916-17 ...	..	3,014	175	3,189	200	813	966	1,979	5,168
Southern ...	1915-16 ..	766	2,502	1,150	4,418	936	619	1,137	2,692	7,110
	1916-17 ...	44	3,379	64	3,487	1,051	866	1,317	3,234	6,721
Berar ...	1915-16 ..	...	591	179	770	...	565	657	1,222	1,992
	1916-17 ..	220	2,786	...	3,015	...	577	1,066	1,643	4,658
Total ...	1915-16 ..	966	4,135	1,329	6,430	966	1,785	2,383	5,134	11,564
	1916-17 ...	273	9,179	239	9,691	1,251	2,256	3,349	6,856	16,547
	Difference ...	-693	+5,044	-1,090	+3,261	+285	+471	+966	41,722	4,983

There was an increase of Rs. 4,983 under this head (Rs. 16,547 against Rs. 11,564). While the Southern Circle showed a decrease of Rs. 389, this was more than counterbalanced by increases of Rs. 2,706 and Rs. 2,666, respectively, in the Northern and Berar Circles. The increase in the Northern Circle has not been explained. The Conservator, Berar, reports that the increased expenditure was due to the construction of a number of wells in the Yeotmal, Akola and Betul Divisions. Out of the total expenditure of Rs. 16,547, Rs. 9,691 was spent on new works against Rs. 6,430 in the preceding year and Rs. 6,856 against Rs. 5,134 on "Repairs". Under "New Works" there has been a large increase of Rs. 5,044 on the construction of wells, etc., which was somewhat compensated by decreases of Rs. 693 and Rs. 1,090 under "Tanks" and "Compounds". In the Melghat and Nimar Divisions temporary bunds were erected in streams to test the value of sites for storing water in years of short rainfall by means of masonry dams. While on this subject the Conservator points out that in the Melghat the idea of constructing such dams came up 40 years ago, when 17 so-called anicuts were erected by the Public Works Department. No provision, it seems, was made for scouring, and the dams silted up at once. The sites were also badly selected. Only one of these old anicuts is of any practical use. Two others are capable of improvement, and one of these is now being altered by the Public Works Department. As directed by the Government, the experiment substituting nala bunds for tanks in the grazing tracts to provide water for cattle was carried out in the Nimar Division. A report was received after the close of the year, and it seems likely that the adoption of these methods may prove to be of considerable value in many Divisions of the Province.

The total outlay on communications, buildings and wells and other works amounted to Rs. 1,71,222 during the year against Rs. 96,059 in the preceding year, an increase of Rs. 75,163, the reasons for which have been explained above.

GENERAL PROTECTION.

11. The number of Forest offences during the year under report is compared with that in the year 1915-16 and with the average of the three preceding years in the following statement.—

Nature of offence.	Northern Circle.				Southern Circle.				Berar Circle.				Total Province.				Percent- age to total cases of 1916-17
	Average three years.	1915-16.	1916-17.	Increase or decrease over	Average three years.	1915-16.	1916-17.	Increase or decrease over	Average three years.	1915-16.	1916-17.	Increase or decrease over	Average three years.	1915-16.	1916-17.	Increase or decrease over	
I—Injury by fire ..	141	175	78	-97	93	100	62	-38	49	75	58	-17	283	350	198	-152	1.4
II—Unauthorized felling.	2,509	2,423	2,552	+159	1,353	1,679	1,571	-108	1,629	1,789	1,452	-337	5,491	5,891	5,605	-286	39.9
III—Unauthorized grazing.	1,824	2,197	2,454	+237	1,475	1,815	1,914	+99	2,906	3,042	3,166	+124	6,215	7,054	7,534	+480	53.6
IV—Other offences	105	128	64	-64	62	114	165	+51	459	400	480	+80	626	622	709	+67	5.1
Total ..	4,589	4,923	5,178	+255	2,983	3,708	3,712	+4	5,043	5,306	5,156	-150	12,615	13,937	14,046	+109	

The total number of offences rose from 13,937 in 1915-16 to 14,046 in 1916-17, an increase of 109 cases, which exceeded the average by 1,431 cases. Out of the total number of 14,046 cases, 198 cases, or 1.4 per cent, were cases of "Injury by fire," 5,605 cases, or 39.9 per cent, fell under "Unauthorized

fellings", 7,534 cases, or 53·6 per cent, were of "Unauthorized grazing" and 709, or 5·1 per cent, were "Other offences". There was a decrease of 152 cases and 286 cases respectively under the former two heads, but these decreases were more than counterbalanced by increases of 480 cases and 67 cases under the latter two heads. While the increase in the Southern Circle was only 4 cases, there were 255 cases more in the Northern Circle and a decrease of 150 cases in the Berar Circle, the net result being an increase of 107 cases for the Province as a whole.

The Conservator, Southern Circle, remarks that the increase would have been more had it not been for the great fall in the number of cases in the North Chanda Division under the heads of "Unauthorized fellings" and "grazing" said to be due to the Military grass operations which kept subordinates for some time from their ordinary duties.

I.—Injury by Fire—The cases under this head showed a reduction of 152 cases over those of 1915-16. The decrease was common to all Circles, Northern Circle 97, Southern Circle 38 and Berar Circle 17. With the exception of the South-Mandla and Jubbulpore-Narsinghpur Divisions, the decrease in the Northern Circle was shared by all Divisions, and is said to be due to the favourable climatic conditions. In the Saugor Division it is attributed to the exclusion of certain forest areas from fire protection where there had been difficulties in the previous years. The occurrence of fewer forest fires during the year as explained in the following section has been given as the reason for the reduction in the Southern Circle.

The Divisions mainly responsible for the fall of cases under this head in the Berar Circle were Amraoti, Buldana and Betul, showing decreases of 11, 6 and 19 cases, respectively, which were however, diminished by increases of 7, 1, 6 and 5 in the Melghat, Yeotmal, Akola and Nimar Divisions. The frequent rain throughout the hot weather, which rendered the grass less inflammable, is said to be the main factor for the reduction in the Amraoti and Betul Divisions, while the increase in the Melghat Division is ascribed to fires in early burnt areas which were not protected at all in previous years.

II—Unauthorized Fellings—Under this head also there was a net reduction of 286 cases, 5,605 cases in 1916-17 against 5,891 cases in 1915-16. The Northern Circle showed an increase of 159 cases, but this was more than compensated by decreases of 108 and 337 cases respectively in the Southern and Berar Circles. In the Northern Circle the Divisions which showed increases were South-Mandla (203 cases), due to the re-organization of the previous apathetic staff in the Dindori Range and to the strict enforcement of the nistar felling rules; Jubbulpore-Narsinghpur (77 cases), due to offenders of a village in the Murwara Range, who failed to commute for nistar; and Seoni (92 cases) due to the greater vigilance on the part of the staff. The Hoshangabad Division showed an increase of 2 cases only. The better results in the Seoni Division are, the Divisional Forest Officer considers, due to the granting of small rewards to subordinates and others who exert themselves in detecting difficult or troublesome cases. The Conservator observes that the Divisional Forest Officer is probably correct in this, but that the system has its drawbacks and requires careful supervision, with which view the Chief Conservator agrees. There were decreases in the remaining four Divisions: North Mandla (104 cases), attributed to the deterrent effect of heavy compensation levied; Damoh (40 cases), due to the better facilities afforded to the villagers to meet their requirements through coupe contractors; Chhindwara (43 cases), to more leniency shown in disposing of the cases; and Saugor (24 cases). From Saugor, two serious cases of theft are reported in the Banda Range. In one of these the thieves resisted seizure of the stolen property and beat the Forest Guard with fatal results. The late Guard's family was awarded pensions; the culprits escaped with only a few years' imprisonment. In another case, the offenders were a certain reputed gang of dacoits, who have settled down as cultivators, and the theft committed was of a considerable amount of timber. The case was, however, compounded. Three cases of similar nature are also mentioned by the Seoni Division due, according to the Divisional Forest Officer, to the slackness or dishonesty of subordinates. In two of these cases some ~~malicious~~ and their servants were implicated, while in the third only two villagers were concerned. Heavy compensation was given in the latter two cases.

challenged by the Police, and the Malguzar was let off and his servants were punished. For the decrease in the Southern Circle the Balaghat and the North-Chanda Divisions, with a reduction of 94 and 101 cases, respectively, were chiefly responsible.

The decrease in the latter Division is explained above. In the South Raipur Division, where there was an increase of 70 cases, the Balaghat system of marking stamps, as described in last year's report was introduced, and the results are said to be satisfactory. The Divisional Forest Officer remarks "it is a common practice for the people to enter the forests and hack down their requirements during the monsoons and to bring these out some months after under cover of a license for dry wood." The Conservator observes that permission to remove dry wood, unless very closely supervised, invariably results sooner or later in the illicit preparation of dry wood. The decrease in the Berar Circle occurred mainly in the Melghat, Yeommal, Nimar and Betul Divisions. In the Melghat Division it is attributed to the late kharif harvest which kept the people otherwise engaged. The increase in the number of coupes available for timber and fuel and the timely marking and opening out of coupes caused the reduction in the Yeommal Division. The stoppage of the practice of seizure of produce uncovered by licenses in the vicinity of Government forests was responsible for the decrease in the Betul Division. The decrease in the Nimar Division is said to be more apparent than real, as the staff in four out of the eight ranges in that Division were fully occupied with military grass supply for three months during which period detections were few.

III Unauthorised Grazing - The increase of 480 cases (from 7,054 to 7,534) under this head for the Province as a whole was shared by all Circles: Northern 257, Southern 99 and Berar 124. Excepting the North-Mandla, Saugor and Hoshangabad Divisions, which showed decreases of minor importance, the increase in the Northern Circle was contributed to by the remaining Divisions: South Mandla 45, Jubbulpore-Narsinghpur 40, Damoh 9, Seoni 173 and Chhindwara 55. Better control and check of cattle has been ascribed as the reason for the increase in the first three Divisions, while the introduction of the system of temporarily transferring Range Assistants from one Range to another at the time of checking licenses is said to be the cause for the increase in the Chhindwara Division. The increase in the Seoni Division is attributed to the same reasons as lead to the increase in the cases of "Unauthorized Fellings", viz., the grant of rewards to subordinates. In the Southern Circle the Bilaspur, North-Chanda, Nagpur-Wardha and South-Raipur Divisions showed decreases of 21, 106, 2 and 2 cases respectively, but these were more than counterbalanced by increases of 65, 46, 51 and 68 cases respectively in the Balaghat, Bhandara, South-Chanda and North-Raipur Divisions. The Divisional Forest Officer, South Chanda, attributes the increase to the system, which led to the increase in the Chhindwara Division of the Northern Circle, as explained above, to which factor also the increases in the other Divisions are said to be probably due. In the North-Raipur Division a second check was instituted and unlicensed cattle were found grazing with licensed cattle. The fall of 106 cases in the North-Chanda Division is attributed to the military grass operations which kept some of the subordinates from their ordinary duties. For the increase in the Berar Circle the Amraoti and Nimar Divisions were chiefly responsible. In the former Division the increase is said to be due to better vigilance on the part of the protective staff, while that in the latter Division is attributed to the very strict and continuous check on cattle maintained throughout, as advocated by the Chief Conservator in his Inspection Note on this Division.

Other offences.—Against a decrease of 64 cases in the Northern Circle there were increases of 51 and 80 cases in the Southern and Berar Circles respectively, the net result being an increase of 67 cases for the Province. As the offences under this head are of a miscellaneous nature and as the variations are very small, they call for no special remarks. The decrease in the Northern Circle was common to all Divisions. For the increase in the Southern Circle the Balaghat and North-Chanda Divisions were mainly responsible, while that in the Berar Circle occurred mainly in the Yeommal Division. The illicit removal of minor forest produce and the disturbance of village life by plague and cholera, whereby many cattle-owners left their cattle taking their passes with them instead of leaving them with the herdsmen, are stated to be the reasons for the increase.

Disposal of Forest Offence cases.—The total number of cases that remaining pending at the close of the year 1915-16 was 1,582. 59 cases of these were withdrawn or cancelled, thus leaving a balance of 1,523 cases at the beginning of the year. Added to the cases that occurred during the year under report, *vis.*, 14,041, excluding 5 cases withdrawn during the year, the total number of cases to be disposed of was 15,564. Out of these, 200 cases, or 1·3 per cent, against 253 cases, or 2 per cent, were taken to Court, 13,343 cases, or 85·7 per cent against 13,133 cases, or 84 per cent, were compounded under Section 67 of the Indian Forest Act, 584 cases, or 3·8 per cent, against 614 cases, or 4 per cent, remained undetected and 1,437 cases, or 9·2 per cent, against 1,582 cases, or 10 per cent, remained pending at the close of the year. Out of the 200 cases decided by Court convictions were obtained in 146 cases, the acquittals being 54. The percentage of convictions obtained for the Province as a whole fell from 79 in the year 1915-16 to 73 in the year under report. Whereas this percentage in the Northern Circle fell from 78 to 66, those in the Southern and Berar Circles rose from 82 to 84 and 77 to 79 respectively. With the exception of the Nimar and Yeotmal Divisions, where there is said to be a tendency to be lenient with grazing cases, the punishments awarded by Magistrates are reported to have been generally speaking adequate. The Divisional Forest Officer, Nimar, reports a test case in which the question arose whether a Bania in possession of cattle under a mortgage was entitled to the concessions for the cattle which the owner (a cultivator) would have got. The case was decided in favour of the Bania. In the North-Raipur Division two malguzars were convicted of bribing Forest Guards to release cattle seized for grazing without licenses.

Of the total number of cases compounded (13,343), compensation was recovered in 13,334 cases, the acquittals being 9 cases. The average compensation realized per case and per person was Rs. 7-1-4 against Rs. 6-10-3 and Rs. 2-11-9 against Rs. 2-9-8 in the Northern Circle; Rs. 7-13-1 against Rs. 8-12-8 and Rs. 2-10-2 against Rs. 2-6-9 in the Southern Circle and Rs. 12-12-1 against Rs. 10-13-0 and Rs. 3-12-7 against Rs. 3-12-7 in the Berar Circle. It will be seen that while more compensation was levied per case in the Northern and Berar Circles, the Southern Circle showed a decrease of nearly one rupee per case. The average rate of compensation per person remained exactly the same as last year in the Berar Circle, those in the Northern and Southern Circles showing an increase of 2 annas and 3 annas (in round figures) respectively.

The total number of undetected cases for the Province as a whole fell from 614 in 1915-16 to 584 in the year under report, a decrease of 30 cases. There was an increase of 33 cases in the Berar Circle (157 against 124), but this increase was more than counterbalanced by decreases of 41 and 22 cases respectively in the Northern and Southern Circles.

The number of pending cases was 1,437 against 1,582 in the preceding year. Northern Circle 653 against 813, Southern Circle 329 against 304 and Berar Circle 455 against 465.

The number of cases in which rewards were granted for detection of offences and the amount of rewards during the year compare as follows with those in the preceding year:—

Circle.		Number of cases.	Amount of rewards.	Average amount per case.
1		2	3	4
			Rs. a. p.	Rs. a. p.
Northern	{ 1915-16 ...	22	127 0 0	5 12 4
	{ 1916-17 ...	62	213 0 0	3 6 11
Southern	{ 1915-16 ...	105	403 0 0	3 13 5
	{ 1916-17 ...	214	340 0 0	1 9 5
Berar	{ 1915-16 ...	19	99 8 0	5 3 9
	{ 1916-17 ...	20	109 0 0	5 7 2
Total	{ 1915-16 ...	146	629 8 0	4 5 0
	{ 1916-17 ...	296	660 " "	

It will be seen from the above that except in the Berar Circle where there was an increase of 3 annas per case, there has been a tendency to give small rewards in these cases.

PROTECTION FROM FIRE

12. The following statement compares the results of fire protection of the year 1916-17 with those of the preceding two years —

Circle	year of protection	Area attempted to be protected (square miles)	Flures (square miles)	Area actually protected (square miles)	Percent age of area successfully protected	Cost	Remarks
1	2	3	4	5	6	7	8
Northern	1914-15	3,361	45	3,318	99	Rs 35,604	The cost is inclusive of expenditure on early burning in all cases
	1915-16	3,441	118	3,323	97	34,747	
	1916-17	3,410	40	3,370	99	35,082	
Southern	1914-15	4,551	30	4,512	99	38,461	
	1915-16	4,034	71	3,963	98	39,237	
	1916-17	3,844	21	3,823	99	38,518	
Berar	1914-15	3,791	102	3,689	98	35,970	
	1915-16	3,445	74	3,371	97	28,153	
	1916-17	3,082	31	3,051	99	20,485	
Total	1914-15	11,705	180	11,519	98	1,10,905	
	1915-16	10,920	263	10,657	97	1,02,137	
	1916-17	10,336	92	10,244	99	94,085	

There was a further decrease of 584 square miles in the area attempted to be protected, the areas for the years 1915-16 and 1916-17 being 10,920 square miles against 10,336 square miles. The reduction occurred in all Circles and was shared as follows:—Northern Circle 31 square miles, Southern Circle 190 square miles and Berar Circle 363 square miles. In the Northern Circle, while the area in the Damoh Division rose by 93 square miles, due to the extension of systematic protection according to the sanctioned fire protection scheme, this was more than made up by decreases of 123 square miles in the Saugor Division and 1 square mile in the Seoni Division. This fall of 123 square miles is said to be due to the exclusion of grazing areas from systematic fire protection, as sufficient protection against fire is afforded to them by the heavy grazing permitted. In the Southern Circle 1 square mile was added under systematic fire protection. Against this, decreases occurred in the North-Chanda Division (109 square miles), Balaghat Division (4 square miles) and South Raipur Division (39 square miles). All these areas were excluded from regular fire-protection and brought under "early burning". The Divisions responsible for the reduction in the Berar Circle were Melghat 62 square miles, Yeotmal 12 square miles, Nimar 274 square miles and Betul 15 square miles. The same reason as is given for the decrease in the Southern Circle is also ascribed to this reduction. As regards the policy of "early burning" the Conservator, Northern Circle, reports that it was tried with poor results owing to the subordinates misunderstanding the orders and taking little interest in the work. The weather conditions also are said to have been unfavourable. However, in four of the ranges in the Jabalpur-Narsinghpur Division to which these operations were extended the results are said to have been satisfactory. In the Southern Circle "early burning" was resorted to in all Divisions except Bhandara in which, owing to the military grass operations, it could not be carried out. It is reported that this system of burning is now thoroughly understood in all Divisions of the Circle, and, if carried out sufficiently early in the season, appears to cause no damage. The Conservator remarks that the difficulty is to get the fire to spread, but even if the grass is partially burnt off, the danger likely to be caused by a fire

later on is much reduced. The effects of "early burning" in the Berar Circle are being kept under observation. The Conservator suggests that all fires occurring in early burnt forests after the date on which the departmental early burning ceases should be reported and treated in the same manner as the fires that take place in areas under regular protection are done. This suggestion will be considered at the next Conservators Conference. He further points out that in the Dhulohli Range of the Melghat Division where no protection of any kind had been attempted in the previous five years (fires occurred after the departmental burning was stopped) the successful protection had been only 3 per cent of the range was burnt a result which is creditable to the staff. The system of burning off savannahs in the sal forests of the Palghat Division was continued with success, a strip being left unburnt to enable the sal to spread.

The year was more favourable as regards protection from fire than the preceding two years. A total area of 62 square miles was burnt against 263 and 186 square miles respectively. The decrease was shared by all Circles. Northern Circle 40 square miles against 118 square miles, Southern Circle 21 square miles against 71 square miles and Berar Circle 31 square miles against 74 square miles. These good results were largely due to the prolonged monsoon and to frequent showers of rain during the fire season. The only Division in which more area than last year was burnt was the Seoni Division, the increase being only 554 acres. The percentages of failures in the Northern and Berar Circles was reduced from a 3 in 1915-16 to 1 in the year under report while that in the Southern Circle from 2 to 1. This percentage for the Province as a whole was 1 against 3. The most successful Division in the Northern Circle was Hoshangabad where only 0.01 per cent of the area attempted to be protected was burnt, the Saugor Division being the worst with a percentage of 4.18 of the area burnt. The lowest percentage of failure in the Southern Circle again occurred in the South Chanda Division (0.3 per cent) the highest being returned by the South Raipur Division (1.11 per cent). In no Division of the Berar Circle (except the Nimar Division, where the failure amounted to 4 per cent) did the percentage of failure rise above 1, the Division in which the least area was burnt being as usual the Melghat. As in the last year the Singhpur Range in the South Raipur Division and the Panthora Range in the Bilaspur Division were the least successful. In the former there were four fires burning an area of 1,558 acres due, it is thought, to malicious firing by discontented coupe contractors, but no clue leading to a prosecution was forthcoming in any case. The block of the Panthora Range in which this year 7 fires spread over an area of 3,527 acres has been repeatedly burnt for many years. The Conservator was unable to tour in this range as expected, but various measures designed to protect the more valuable portions will be tried next year and the Chief Conservator trusts that these will lead to more successful results.

The area successfully protected was 10,244 square miles in 1916-17 against 10,657 square miles in the preceding year, the percentages of success for these years being 99 and 97 respectively. These percentages by Circles were:—Northern Circle 99 against 97, Southern Circle 99 against 98 and Berar Circle 99 against 97.

Including the cost of areas early burnt, the total expenditure on fire protection fell from Rs. 1,02,137 in 1915-16 to Rs. 94,085 in the year under report, a decrease of Rs. 8,052. While there was an increase of Rs. 335 in the Northern Circle, the Southern and Berar Circles showed decreases of Rs. 719 and Rs. 7,668 respectively. The average cost of protection per square mile was—

Circle			1915-16.			1916-17.		
			Rs	a	p.	Rs	a	p.
Northern	...	...	10	1	7	10	4	4
Southern	..	..	9	11	8	9	10	0
Berar	..	..	8	0	5	6	10	4
Province	.	...	9	4	7	9	1	7

Though for the Province as a whole there has been a reduction in the average cost of protection per square mile the Northern Circle showed an increase

and Berar Circles respectively. The latter is an appreciable decrease and occurred chiefly in the Yeotmal Division, where heavy grazing concentrated on the old fire lines, combined with an unusual demand for grass and favourable climatic conditions reduced the expenditure per square mile to the abnormal figure of 7 annas and 9 pies per square mile. The Divisional Forest Officer reports that it is unlikely that he will be able to work in future at anything like the same figure, as the necessary concentration of grazing on fire lines is exceedingly difficult to ensure. Though for the Circle as a whole the cost of protection per square mile in the Southern Circle showed a decrease, there were increases in the North Raipur, Nagpur-Wardha, Balaghat and Bilaspur Divisions against decreases in the remaining Divisions. The increased cost in the North Raipur Division (Rs 2-3-2) is said to be due to the improvement made in several fire lines which were either very crooked or narrow, while that in the Nagpur-Wardha (Re. 0-12-0) to several after burnings of fire lines necessitated by rains throughout the season.

The fires that took place during the years 1915-16 and 1916-17 are classified according to their origin in the following statement :—

Origin of fire	Northern Circle.				Southern Circle.				Berar Circle.				Total Province.			
	Number of fires.		Area burnt (acres).		Number of fires.		Area burnt (acres)		Number of fires.		Area burnt (acres)		Number of fires.		Area burnt (acres).	
	1915-16	1916-17	1915-16	1916-17	1915-16	1916-17	1915-16	1916-17	1915-16	1916-17	1915-16	1916-17	1915-16	1916-17	1915-16	1916-17
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A. Burning fire lines .	21	26	7,191	4,944	16	3	5,115	938	19	6	5,357	428	56	35	20,661	6,310
B. Crossing exterior lines.	20	11	6,736	5,833	32	4	6,998	1,965	9	4	15,686	1,470	61	19	31,430	9,015
C. Persons in forests (accidents).	17	8	6,175	766	14	11	4,683	1,597	3	13	7,410	1,561	34	31	18,568	3,984
D. Persons in forests (incendiary)	11	2	10,014	500	10	4	4,376	2,014					21	6	14,410	2,514
E. Railway Engines	12	2	1,963	292	4	1	550	925	3	1	310	7	19	4	2,623	1,284
F. Lightning or fire balloons.		1		2			15	..	1	2	35	14,532	2	3	50	14,534
G. Causes unknown .	79	44	41,395	13,521	57	18	23,640	6,144	33	14	15,701	1,438	169	76	80,736	21,083
Total ..	154	94	75,494	25,608	134	41	43,677	13,583	74	40	47,299	19,715	362	175	168,470	58,907

It will be seen that there was a marked reduction both in the number of fires and the acreage burnt, which was shared by all Circles. During the year 175 fires occurred burning an area of 58,907 acres against 362 fires burning 1,68,470 acres, in the preceding year. Compared by origin of fires there was a decrease under almost every head for the Province as well as by Circles. On the whole, the results of the year were exceptionally satisfactory.

PROTECTION FROM CATTLE.

13. The total area closed to grazing for the whole or part of the year was 3,517 square miles, or 18 per cent of the total forest area, which showed an increase of 44 square miles over that in the year 1915-16, *viz.*, 3,473 square miles. Thus the total area which was thrown open to the grazing of animals throughout the year amounted to 16,155 square miles during the year against 16,193 square miles in 1915-16. In 10,158 square miles of this area, however, camels, sheep and goats were not admitted to graze. It is reported that in the Yeotmal Division the year under report was a year of scarcity of karbi which increased the demand for fodder grass and grazing and consequently the

coupes which had benefited by three full years of closure to grazing after felling and the remoter areas reserved for fodder grass had to be thrown open to grazing after February

The total number of animals impounded during the last two years are compared in the following statement:—

Circle		1915-16.	1916-17.	Difference
1		2	3	5
Northern	...	7,096	3,785	-3,311
Southern	...	4,454	4,573	+119
Berar	...	3,788	4,895	+1,107
Total		15,338	13,253	-2,085

Against an increase of 119 and 1,107 animals in the Southern and Berar Circles respectively, there was a great reduction of 3,311 animals in the Northern Circle, which resulted in a net decrease of 2,085 animals for the Province as a whole. This fall has not been explained.

PROTECTION AGAINST INJURIES FROM NATURAL CAUSES.

14. *Frost*.—No frost of serious nature is reported from any of the three Circles. In the Northern Circle, while the Damoh Division entirely escaped from frost, elsewhere little or no damage was done. In the Southern Circle in the Balaghat Division the regrowth of sal in the open savannahs was as usual set back by frost, but there was no widespread damage to forest growth as recorded last year. The Divisional Officer remarks "that the recovery of the areas which were severely damaged by frost in February 1916 has been as satisfactory as could be expected, but a serious feature of the present state of these forests is the large number of poles and saplings which had their leading shoots killed. In the great majority of cases this leader is sooner or later replaced, but there remains a bayonet-shaped formation of the stem at the point where the original injury occurred, which is practically certain to lead to unsoundness in later life. It is to be feared that when the present crop of poles becomes ripe for felling and conversion, the percentage of sound trees in these frosted areas will be exceedingly small."

The Conservator, Berar, states that observation of the effect of the sharp frost of February 1916 shows that little real damage was done except in restricted areas in the north of Nimar Division. Anjan was found to be completely immune even in the worst areas and showed powers of resistance not evidenced by any other species.

Wind and Hailstorms.—No serious damage is reported to have been done by wind either in the Northern or Berar Circle, some damage was caused in the Bilaspur and South Raipur Divisions of the Southern Circle. In the latter Circle, hailstorms were very frequent in the Betul Division, but it is said that their severity was invariably very local—the worst occurred in the Machna valley, where a large number of trees were damaged or blown down. In the North Chanda Division of the Southern Circle also very severe hailstorms passed over a portion of the district, and in some areas the trees were defoliated, but the damage does not appear to be of permanent nature. Slight damage was also done to the harra crop in the North Mandla Division.

Insects.—Though the damage done by the teak leaf defoliator in parts of the North Mandla and Damoh Divisions is reported to have been slight, in the Bori Range of the Hoshangabad Division and in the Ghat portion of the Silwani Range of the Chhindwara Division it was more than usual. A moderate attack of this pest was also noticed in a few localities in the Yeotmal and Nimu Divisions. Rather serious damage was done to "Tendu" (*Diospyros lanuvolor*) in the Bhandara Division by caterpillars during April and May soon after the new leaves appeared. It may be mentioned that the leaves of this species are used in the manufacture of "huis" (country cigarettes), and nearly Rs. 1000 was obtained in this Division during the year from this source. Slight damage by the sal borer is reported from the South Mandla and Bilaspur Divisions. While no further information regarding damage done by *Polyporus shiraii* is available in the Southern Circle, the damage caused by this fungus in the Northern Circle in the South Mandla Division is said to have been very considerable, nearly 14 per cent of the trees marked for felling were found to have been attacked and many others affected. Whilst the damage is often not apparent, the trees on being felled are found to be hollow. In the South Raipur Division, local attacks of the *Drapus furvus* (Sampson) were observed in the coppice with standards exploited areas of the South Sihawa Range. It was noticed that perfectly healthy sal standards of under 3 feet girth, which were standing in isolated positions, were exuding resin profusely. Specimens of the beetle found were sent to the Zoologist, Forest Research Institute Dehra Dun, and selected attacked trees have been marked for observation. In the Buldana and Akola Divisions the habul-boring beetle continued to damage babul plantations. In the latter Division the damage done was not serious, and frequent weeding between the lines of saplings is believed to have had the desired effect. In the former Division the method of destroying the larvæ by boiled water or kerosine oil, adopted from last year, was continued. Some damage from white-ants is reported from the South Mandla Division.

Drought—No damage from drought is reported from any Circle. None of the sal trees selected for observation in the Baihar Range of the Balaghat Division in 1915 has died. The Divisional Forest Officer remarks that "points for consideration are whether poles which have been badly affected by drought are capable of yielding healthy and vigorous coppice and whether it is preferable to cut them back or to leave them as covering for the soil." The first point should be settled by experiment, and, if good coppice is obtained, this will serve for the necessary cover.

Wild animals.—More or less damage to coppice shoots by cheetal, sambhar and other deer is reported from a number of Divisions throughout the Province. In the North Sihawa Range of the South Raipur Division the numbers of nilgai have increased considerably. In the Yeotmal and Akola Divisions the destruction of wild pigs and nilgai was encouraged in the interests of agriculturists, 95 nilgai and 55 pigs were killed by permit-holders and 6 nilgai and 4 pigs by the Forest subordinates. 33 cheetal and 21 doe antelope were also killed in the Bhongaon Reserve of the Buldana Division, where complaints from cultivators of the adjacent fields had been frequent. Pigs and rats did some damage, as usual, to nurseries and young plantations in the Yeotmal and Akola Divisions. In the latter Division a rat-exterminator was used in nurseries with good effect.

Climbers—The cutting of climbers was carried out in all Circles. In the Northern Circle the expenditure was Rs. 912 against Rs. 638 in the preceding year. In the Southern Circle this work was carried out in all Divisions, an area of 93,450 acres having been worked over at a cost of Rs. 3,037 during the year, against 81,873 acres and Rs. 2,315 in the preceding year. In the Berar Circle this work on payment was confined to the Melghat Division, where climbers were cut over an area of 21,583 acres at a cost of Rs. 1,843. In other Divisions they were cut at the time of marking and cutting-back operations; a large number of creepers were cut by Forest guards as usual, no expense being incurred.

NATURAL REPRODUCTION.

15. (i) *State of existing reproduction.*—Reproduction from seed is reported to have been satisfactory for the Province as a whole except in Yeomai, Buldana, Amraoti and Melghat Divisions of the Berar Circle, though in some of the Northern Circle Divisions it is said to have been poor, especially the harra crop in the South Mandla Division, which was not up to the average, and where also practically little or no seed set. The monsoon was copious and continued well into the cold weather, while the hot weather of 1917 was remarkable for frequent showers which developed into a very early monsoon, and these climatic conditions gave excellent results as regards regeneration almost everywhere in the Southern Circle. As regards the absence of reproduction in the Divisions of the Berar Circle referred to above, the Conservator remarks that there seems to be no doubt that only a very small percentage of the seedlings that appear yearly are able to survive their first hot weather and the mortality in the next few years is also high. The 9,000 teak seedlings marked in 1915 in the Melghat Division, of which only 15 per cent were reported to be alive last year, were kept under observation during the year under report and it was found that only 6 per cent survived in July 1917. The Conservator observes that this heavy rate of mortality, combined with the small proportion of the forest area in which seedlings appear at all is sufficient to explain the comparative scarcity of recent seedling growth in the Melghat Reserves. The year under report was favourable for the reproduction by coppice, which has been reported to be satisfactory throughout the Province except in the Saugor Division of the Northern Circle, where the teak coppice is said to have been surprisingly poor in spite of the favourable season. It was also poor in some parts of the South Mandla Division. It is reported from the Balaghat Division that in the Baihar Range a number of sal trees of and over 4 feet girth, which were not intended to coppice and had been cut with high stumps, yielded vigorous shoots. In all cases these were found to have originated at ground level and not at the top of the stumps. Somewhat similar results have been observed in the South Raipur Division also. The results of the experiment referred to in the last year's report are still awaited.

(ii) *Measures for inducing or aiding reproduction.*—Nothing of importance is noted under this head in the Northern and Berar Circles. In the Southern Circle measures were carried out in all Divisions except Balaghat, North Chanda and North Raipur. In the Bilaspur Division bamboo seeds were sown broadcast during the rains of 1916 over an area of 10 acres but without result. In the South Chanda Division the area in which teak seed was sown last year in the Wainganga Felling Series was carefully examined during the year, but it is stated that up to date no seedlings have appeared. In the South Raipur Division sal seed, as an experiment, was sown under the shelter of *Tilia (Wendlandia exserta)* bushes over an area of 5 acres and *Tilia* seeds were sown in the open savannahs between sal belts. In another 4 acres *Tilia* seed was sown broadcast after first clearing the rank growth of grass. It is thought that this species will prove an effective nurse for sal.

16. *Tending operations in Natural Crops.*—The extent to which cutting back thinnings and other operations for the improvement of the growing stock were carried out during the year under report and the year preceding thereto is compared in the following statement :—

Circle.	Area in acres.		Cost.		Revenue.	
	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.
1	2	3	4	5	6	7
			Rs.	Rs.	Rs.	Rs.
Northern	26,919	50,064	7,223	11,730	6,477	17,865
Southern	20,397	29,950	5,183	6,559	89	1,349
Berar	53,427	60,664	11,291	14,558	16,303	23,997
Total	100,743	140,678	23,702	32,847	22,869	43,211

It will be seen that the area over which these operations were carried out rose from 100,743 acres in 1915-16 to 140,678 acres in 1916-17, an increase of nearly 40 per cent. More than half the increase was in the Northern Circle, while for the remainder the Southern and Berar Circles were more or less equally responsible. The increase in the Northern Circle is said to have been due partly to the ready sale of the cut material and to more money being available than in the preceding year. In the Hoshangabad Division the operations were extended to the areas affected by frost and in the Saugor Division these operations were considered preferable to granting extensions to coupe contractors. In the Southern Circle the increases occurred in the Balaghat, Bhandara, and Nagpur-Wardha Divisions, while in the Bilaspur Division the operations were undertaken, it appears, for the first time. In the Balaghat and Bhandara Divisions these operations were conducted in coppice coupes. In the Nagpur-Wardha Division a scheme of improvement fellings to aid the spread of teak in the unworked felling series of the East and West Pench Ranges was drawn up in pursuance of the recommendations made in paragraph 50 of the Working Plan, but could not be given full effect to on account of the grass operations. The usual improvement fellings in the interests of valuable species were carried out in the Allapilli Range of the South Chanda Division, all previous balances being cleared off, the work being now up to date.

The cost of these operations was Rs 32,847 against Rs. 23,702, the revenue being Rs. 43,211 against Rs 23,069, in addition to material estimated at Rs 2,717 remaining still to be sold in the Berar Circle.

The work of cutting back is of great importance, and it is satisfactory to note that the cost incurred was more than recouped by sales of the produce cut.

ARTIFICIAL REPRODUCTION.

17. (i) *Regular plantations.*—The Conservator, Northern Circle, now reports that in the areas under Regular Plantations shown by him last year 121 acres were wrongly included under this head, they actually belonged to "Cultural operations".

Consequently the total area under regular plantations at the beginning of the year under report was 739 acres instead of 860 acres as reported in last year's review, this area was increased to 733 acres at the close of the year. There were no alterations in the Northern Circle, but in the Southern Circle a further area of 6 acres was sown with *Pinus Khasya* and 10 acres with Sal in the Balaghat Division, while 8 acres were added to the Yeota bamboo plantations in the Akola Division of the Berar Circle. Out of the total acreage of 763 acres under these plantations, 193 acres are under "Bamboo" (Northern Circle 131, Southern Circle 7 and Berar Circle 55); 385 acres are under "Teak" (Northern Circle 362 and Southern Circle 23); 159 acres under "Sandal" (Northern Circle 3 and Southern Circle 156) and 16 and 10 acres respectively under "Chirpine" and "Sal" entirely in the Southern Circle.

In the South Mandla Division sal seed was sown in *bewar* areas, but it did not germinate. Similarly bamboo seeds sown in the Damoh Division also failed. In the Saugor Division 1,000 bamboo seedlings were planted to stock the area in the Garhakora forest more fully. During the year efforts to procure the seed of *Pinus longifolia* having failed, the pine plantations near Supkhar in the Raigarh Range of the Balaghat Division were extended with seeds of *Pinus khasya*. The seed was sown in ploughed strips, but the results were disappointing in spite of the favourable nature of the season. The seed germinated well, but a large number of seedlings were destroyed by caterpillars during the monsoon and others perished from drought later in the year. The Conservator remarks that the climate of Supkhar is probably too dry and hot in the hot weather for this species and that working of the soil more deeply and shading of the young plants are both required. The area sown with sal gave excellent results, and it is stated that there is much scope for the introduction of sal in the mixed forests of these Divisions. In the experimental teak plantations started last year at Ganjrel in the South Raipur Division seeds were sown broadcast over the same area, half of which was ploughed up and the area then burnt. It is reported that after a month numerous seedlings of 1 to 1½ inches high appeared. The Yeota bamboo plantations in the Akola Division of the Berar Circle continued to give good results. The revenue from these plantations during the year amounted

to Rs. 607 (or over Rs. 20 per acre) against Rs. 351 in the preceding year. The total expenditure on these plantations from their commencement has been Rs. 1,899 against a revenue of Rs. 7,104.

(ii) *Taungya Plantations*—These plantations are confined to the Berar Circle. The total area at the beginning of the year was 5,379 acres. To these 1,634 acres (Amraoti 1,045, Buldana 205, Akola 204 and Yeotmal 180) were added during the year, while an area of 602 acres was excluded as being fully stocked, thus the total area under this agri-sylvicultural system of artificial regeneration amounting to 6,411 acres at the close of the year. A system of annual payment instead of the payment of 7 years' rent in advance was introduced in the Amraoti Division with the result that an increase from Rs. 247 per acre to Rs. 631 per acre in the yearly rent was obtained. It is reported that several lessees in the Akola Division were fined for failure to comply with the conditions of their leases. The seed sown (teak) in the area given out in the Yeotmal Division failed to germinate and resowing was necessary.

(iii) *Other forms of artificial reproduction*—The work of planting suitable shade trees in camping grounds in the Hoshangabad Division was continued during the year, but out of the 266 trees planted 12 were failures. It is reported that the sowings of teak, shisham, etc., in past years on selected plots in the Nampur-Wardha Division have not shown successful results. Katang bamboos were sown in the West Panch Range of this Division and the germination is said to be fairly satisfactory. The sowing of sandal seed in the Akola Division was continued during the year. The sandal seedlings of previous years in this and the Buldana Divisions are reported to be thriving. The Chief Conservator is glad to be able to record his appreciation of the work of Mr. Inamati Shama Rao in this direction. From inspection of the results already attained it seems probable that in time considerable areas of very poor forests will become valuable sandal wood areas. His efforts too in regard to the increase of the bamboo supply should prove of value to the local cultivators.

800 teak seedlings obtained from the surrounding forests were planted out into an abandoned "barra" field in the Melghat Division, and earthed up on the Kanara [Bambay] system. Only 155 survived the hot weather. Better results were, however, obtained with 200 plants put out and tended in a similar manner on a small blank area in another locality of the same Division, 149 plants being alive in July 1917. The difference in success is said to be probably due to the fact that the second plot was within a couple of miles from the Range Headquarters, while the first was 15 miles away.

EXPLOITATION - MAJOR PRODUCE.

18. In the following statement are compared the areas subjected to the various methods of sylvicultural treatment during the last two years :—

Circle.	Clear felling. (Acres.)		Selection felling. (Acres.)		Improvement felling. (Acres.)		Coppice with standard felling. (Acres.)		Thinnings of poles. (Acres.)		Total. (Acres.)	
	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.
1	2	3	4	5	6	7	8	9	10	11	12	13
Northern	...	...	6,649	8,083	55,128	54,557	4,651	5,519	...	...	66,428	68,259
Southern	57	140	467	1,547	25,825	19,635	38,282	42,118	...	...	64,631	63,440
Berar	945	764	...	...	50,424	48,362	16,035	19,406	...	...	67,385	68,622
Total	982	904	7,116	9,630	131,377	122,554	58,969	67,231	...	...	198,444	200,321

This figure has now been corrected from 12,566 acres to 6,649 acres with the remark that last year's figure was wrongly included in the area marked over.

Had it not been for the mistake now found out in the Northern Circle in the acreages given for the year 1915-16 under "Selection Felling", there would have been a decrease of 4,040 acres in the year under report over the preceding year in the total areas worked under these methods for the Province as a whole. Allowing for an error in last year's figures of the Northern Circle...

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(iii) *Other forms of artificial reproduction.*—The work of planting suitable shade trees in camping grounds in the Hoshangabad Division was continued during the year, but out of the 266 trees planted 12 were failures. It is reported that the sowings of teak, shisham, etc., in past years on selected plots in the Naupur-Wardha Division have not shown successful results. Katang bamboos were sown in the West Pench Range of this Division and the germination is said to be fairly satisfactory. The sowing of sandal seed in the Akola Division was continued during the year. The sandal seedlings of previous years in this and the Buldana Divisions are reported to be thriving. The Chief Conservator is glad to be able to record his appreciation of the work of Mr. Inamati Shama Rao in this direction. From inspection of the results already attained it seems probable that in time considerable areas of very poor forests will become valuable sandal wood areas. His efforts too in regard to the increase of the bamboo supply should prove of value to the local cultivators.

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Circle.	Clear felling. (Acres.)		Selection felling. (Acres.)		Improvement felling. (Acres.)		Coppice with standard felling. (Acres.)		Thinnings of poles. (Acres.)		Total. (Acres.)	
	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.
1	2	3	4	5	6	7	8	9	10	11	12	13
Northern	...	...	* 6,649	8,083	55,128	54,537	4,651	5,519	...	...	66,428	68,259
Southern	57	140	467	1,547	25,825	19,635	38,282	42,118	...	...	64,631	63,440
Berar	945	764	...	...	50,424	48,362	16,035	19,406	...	...	67,385	68,628
Total.	989	904	7,116	9,630	131,377	122,534	58,968	67,233	...	...	198,444	200,327

* This figure has now been corrected from 12,566 acres to 6,649 acres with the remark that last year's figure was wrongly included in the area marked over.

Had it not been for the mistake now found out in the Northern Circle in the acreages given for the year 1915-16 under "Selection Felling", there would have been a decrease of 4,040 acres in the year under report over the preceding year in the total areas worked under these methods for the Province as a whole. Allowing for an error in last year's figures of the Northern Circle explained in the

in 1915-16, an increase of 1,877 acres. There was a decrease of 1,191 acres in the Southern Circle (from 64,631 acres to 63,440 acres), but against these increases of 1,831 acres (from 66,428 to 68,259 and of 1,237 acres (from 67,385 to 68,622) occurred respectively in the Northern and Berar Circles.

Clear Fellings.—These were carried over an area of 904 acres against 982 acres and comprised the fellings in the babul bans of the Amraoti, Akola and Buldana Divisions of the Berar Circle and simple coppice fellings in the North Chanda Division of the Southern Circle.

Selection Fellings.—The area worked over by this method amounted to 9,630 acres against 7,116 acres. In the Northern Circle these were mostly confined to the South Mandla Division, though in the North Mandla Division also 210 mature teak trees were marked for fellings over an area of 250 acres. In the Southern Circle these fellings were carried out in the Allanilli Range of the South Chanda Division by the lessees, Messrs Bhickraj Sagarmal Bagla, but their work is much in arrears.

Improvement Fellings.—The area covered by these fellings fell from 131,377 acres in 1915-16 to 122,554 acres in the year under report a decrease of 8,823, which was shared by all circles. These fellings carried out in all Divisions of the Province except the Nagpur-Wardha Division of the Southern Circle, but in several Divisions the full areas prescribed under the working plans could not be worked.

Coppice with standards.—A total area of 67,233 acres against 58,969 acres in the preceding year was worked over under this method of treatment, an increase of 8,264 acres. Increases occurred in every Circle and was shared by Northern Circle 968 acres, Southern Circle 3,836 and Berar Circle 3,460. The increase in the Northern Circle occurred in the North-Mandla Division due to opening out of more markets and it is hoped that the demand in this Division may prove to be permanent. In the Southern Circle efforts are being made in all Divisions to reduce the extensions of time given to purchasers, the contractors having to work their areas within the year, and this appears to be the reason for the increase. It is reported that in the Balaghat Division extensions for removal are given free to satisfactory contractors, but for fellings, if granted, it is only on payment of a monthly fee. Here again the military grass operations are said to have interfered with the work of the coppice coupes in the Nagpur-Wardha and Bhandara Divisions. The increase in the Berar Circle occurred mainly in the Yeotmal Division where the provisions of the proposed working-plan have been brought into force. In the Amraoti Division an area of 263 acres was not worked owing to too low prices being offered. It is reported that this system is not suited to the poor ghat forests in the Division, as it exposes the soil too much and that it is also financially unsatisfactory, as much of the material is unsaleable. It is therefore proposed to substitute "Improvement fellings" in the new plan now under compilation.

EXPLOITATION—MINOR PRODUCE.

19. The following statement compares the kinds of minor forest produce extracted from the forests and their values (except grazing) during the last two years:—

Forest Produce.	Northern Circle.		Southern Circle.		Berar Circle.		Total.		Increase or decrease.
	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.	
1	2	3	4	5	6	7	8	9	10
Batta	Rs. 16,349	Rs. 18,310	Rs. 48,418	Rs. 36,182	Rs. 2,748	Rs. 2,535	Rs. 61,087	Rs. 47,307	Rs. 14,580
Inc. +	3,967	1,962	6,385	8,98	1,436	1,492	30,338	22,574	+ 7,364
Mahua and Aohar	4,781	5,062	3,548	3,271	7,108	1,206	9,441	10,146	+ 705
Hides and horns	3,299	3,498	3,082	3,856	2,647	4,063	18,290	17,247	1,043
Bamboo	61,756	78,977	99,231	96,930	94,518	113,471	2,55,519	2,80,240	- 24,721
Under grass	27,076	26,072	11,758	9,664	87,240	118,822	7,26,083	2,54,878	+ 47,205
Teakling grass	..	..	69,705	63,081	106	209	69,871	63,390	+ 6,481
Acacia grass	11,015	1,424	..	..	16,830	33,901	17,045	38,195	+ 17,150
Acacia oil	..	3,353	..	..	342	336	44	330	+ 14
Acacia	..	..	..	..	..	..	..	..	..
Minerals	2,506	3,618	2,144	2,830	10,722	10,905	10,450	27,341	+ 16,891
Other produce	745,589	41,372	20,070	17,057	20,054	27,922	86,282	87,222	- 940
Total	823,233	874,822	2,00,901	2,00,278	249,636	315,228	882,889	720,227	+ 162,662

1915-16. 1916-17. 1915-16. 1916-17. 1915-16. 1916-17. 1915-16. 1916-17. 1915-16. 1916-17.

The total value of all minor forest produce extracted during the year under report amounted to Rs. 7,50,928 against Rs. 6,83,689 in the year 1915-16. While the decrease of Rs. 29,723 in the Southern Circle was more or less compensated by an increase of Rs. 30,680 in the Northern Circle, the values in the Berar Circle rose by Rs. 66,282, thus the net result was an increase of Rs. 67,239 for the whole Province. The products which showed better results were mainly Lac (Rs. 13,236), Mahua and Achar (Rs. 705), Bamboos (Rs. 33,830), Fodder grass (Rs. 27,895), Rusa grass (Rs. 17,480), Catechu (Rs. 3,333) and Minerals (Rs. 891); i. e., a total of Rs. 97,370, which was reduced to Rs. 67,239 by a total decrease of Rs. 30,131 which was contributed to by Rs. 14,380 under Harra, Rs. 1,081 under Hides and Horns, Rs. 6,581 under thatching grass, Rs. 12 under Rusa oil and Rs. 8,077 under "Miscellaneous". The increase under 'Lac' was shared by all Circles, chiefly the Northern and Southern Circles. In the former (Rs. 11,767) it occurred almost entirely in the Damoh Division (Rs. 13,098 against Rs. 1,125) and is said to be due to good 'kutki' crop and a better market, to which latter reason the rise in the Southern Circle which took place in the Bilaspur Division is also ascribed.

The marked increase of Rs. 33,830 under "Bamboos" was composed of Northern Circle (+ Rs. 17,207), Southern Circle (- Rs. 2,292) and Berar Circle (+ Rs. 18,915). In the Northern Circle the rise in the value occurred in the North Mandla Division, due to the enhanced rates sanctioned for the Mandla Range and floating operations undertaken down the Nerbudda River; in the Jubbulpore Narsinghpur Division, due to larger exports to Allahabad and greater accessibility of some of the coupes open in the year; in the Hoshangabad Division, due to the better demand and the introduction of the monopoly *cum* royalty system in two of the Ranges; in the Seoni Division it was ascribed to the abolition of differential rates for green and dry bamboos and the fixation of a mean rate and in the Chhindwara Division to the better demand.

It is reported that the bamboos cut in the Bori block of the Hoshangabad Division did not find a market on account of the ease with which they split. To remedy this an experiment was made this year by soaking the bamboos in water for six weeks after cutting with the result that the bamboos so treated were found then to have no special tendency to split.

The Division chiefly responsible for the decrease in the Southern Circle was the North Chanda Division in which the substitution of the commercial rate of Rs. 3-2-0 per 100 for an agricultural rate of Rs. 1-9-0 affected the export of this produce to Berar. It appears however that this adverse effect is only temporary, as towards the close of the year the trade is said to have greatly improved. The rise in the Berar Circle was divided between the Melghat, Buldana and Betul Divisions. In the first named Division owing to a good demand for bamboos many villagers preferred to export bamboos instead of timber. A demand for this product to construct plague huts and reduction in the rate from Rs. 1-9-0 to Re. 1 per hundred for dry bamboos from the Ambabarwa Reserve contributed towards the increase in the Buldana Division. In the Dabka Savalmendha and South Tapti Ranges of the Betul Division it was observed that bamboos had been over-felled owing to a large demand from Berar. The rate per 100 was therefore raised from Rs. 1-8-0 to Rs. 1-12-0.

Under Fodder grass the Northern and Southern Circles showed decreases of Rs. 1,604 and Rs. 2,074 respectively, but these decreases were more than covered by an increase of Rs. 31,573 in Berar Circle, attributed to the poor crop of karbi. While the better village fodder and good juar crop resulted in the reduction in the Northern Circle, in the Southern Circle it is assigned to the military grass operation in the Nagpur-Wardha and North Chanda Divisions from which Divisions only grass is said to be removed in any quantity.

For the increase of Rs. 17,480 under "Rusa grass" the Berar Circle was almost entirely responsible (there being an increase of Rs. 409 in the Northern Circle) and it occurred mainly in the Melghat and Betul Divisions. In the former Division the increase was more apparent than real as the figures included two years' revenue. The increase in the Betul Division is attributed to better prices realized at auction sales owing to a revival in the market value of the Rusa oil. The increase of Rs. 3,333 under "Catechu" occurred wholly in the Northern Circle. The revenue from this produce used to be included in that under "Mis-

The increases under "Mohua and Achar" and "Minerals" are too small to require any explanations. Out of the decrease of Rs. 30,131 for the Province as a whole, Harra showed a fall of Rs. 14,380, Thatching grass Rs. 6,581 and Miscellaneous Rs. 8,077. The decrease under "Harra" occurred in the Southern Circle (—Rs. 16,256), this was due to abnormally high prices realized in 1915-16 in the Balaghat Division (Rs. 30,400 as compared with Rs. 21,667 during 1916-17). The Conservator observes that the prices realized from the sale of Harra leases in the North and South Raipur Divisions are very possibly much below the market value, and it is likely that there is a good deal of theft, the produce being passed off as coming from malguzari lands with which the Government forests are much interlaced. He adds that it is not easy to suggest a practicable remedy, but the matter has not been lost sight of.

The fall of Rs. 6,581 under "Thatching grass" occurred entirely in the Southern Circle, there being an increase of Rs. 103 in the Berar Circle. The restrictions which had to be put on the cutting of this grass on account of the supplies required for the army resulted in the fall of revenue from this source in the North Chanda, Nagpur-Wardha and Bhindara Divisions. In the North and South Raipur Divisions efforts have been made to reduce the high prices which purchasers of thatching grass have to pay to lessees of grass birs by throwing open to licenses considerable areas formerly leased out. It appears however that licenses are only taken out by persons living close to the forest, and the bulk and the grass goes to villagers at a distance who are unwilling to cut and collect the grass themselves and prefer to pay a higher price for ready cut grass. The areas open to licenses are thus little resorted to and the requirements of the people are largely met from the malguzari forests with considerable profit to their owners.

By a comparison it has been shown that there has been no increase this year in the sale of licenses and that the retail price for cut grass though high, has been paid without any apparent difficulty; a satisfactory indication, the Conservator remarks, that the scheduled rates are well below the market value. Attempts are being made this year to reduce the rates by departmental operations.

The decrease under "Miscellaneous" was shared by all Circles. The fall in the Northern Circle is more apparent than real as the last year's figures were inclusive of revenue from "Rusa grass" and "Catechu" which have this year been shown separately. The reduction in the Berar Circle occurred, it would appear, mainly in the Nimar Division. The Divisional Forest Officer remarks that large quantities of minor forest produce are stolen, and it is impossible to give lessees adequate protection owing to the proximity of malguzari and raiyatwari areas, especially the latter. In order to afford greater protection the question of the disposal of certain non-edible minor products in raiyatwari areas was raised, and it was decided by the Commissioner and the Deputy Commissioner that the raiyats had no rights over rusa grass, lac and gum, which products in these areas will in future be included in the forest leases.

Grazing.—The total number of animals grazed in Government forests during the year, the value of the grazing if calculated at full rates and the actual revenue realized are compared with similar figures of the preceding year in the following statement:—

Circle.	Year.	Buffaloes.	Cows and bullocks.	Sheep and goats.	Other animals.	Total animals.	Value at full rates.	Revenue actually received.			Total.
								Revenue.	Transit and nomadic.	Suitax.	
1	2	3	4	5	6	7	8	9	10	11	12
							Rs.	Rs.	Rs.	Rs.	Rs.
Harra	1915-16	141,143	560,448	38,668	3,418	2,141,577	7,94,808	4,12,785	28,970	...	4,41,755
	1916-17	143,518	520,125	35,119	3,287	2,100,577	7,69,868	3,94,174	31,715	...	4,25,889
Northern	1915-16	60,256	681,310	85,975	319	774,810	5,90,617	2,44,400	9,814	...	2,54,214
	1916-17	61,146	524,157	79,096	265	732,664	5,50,047	2,25,132	12,218	...	2,37,350
Berar (Nimar and Betul only).	1915-16	59,724	226,439	1,896	268	268,313	2,71,079	1,39,043	3,087	...	1,42,130
	1916-17	40,034	220,642	802	287	267,765	2,76,174	1,37,703	6,208	...	1,43,911
Total Central Province and Berar.	1915-16	247,128	1,808,190	127,448	2,033	2,184,800	10,60,964	7,96,822	42,471	...	8,39,293
	1916-17	245,698	1,728,928	115,217	1,839	2,091,682	7,59,669	7,15,703	36,229	...	8,07,832
Berar (proper only)	1915-16	120,800	572,023	25,405	2,505	1,460,822	7,49,146	5,32,880	9,011	823	5,41,710
	1916-17	120,820	508,243	377,337	2,655	1,429,774	7,22,659	5,24,415	12,064	2,174	5,36,853
Total Northern Circle and Berar.	1915-16	367,928	2,380,213	152,853	4,538	2,545,523	22,10,050	12,30,712	51,482	823	12,82,038
	1916-17	365,542	2,257,100	143,366	4,404	2,527,412	22,80,648	12,35,184	42,283	2,174	12,79,041
Difference		2,386	123,093	9,487	34	18,111	59,402	9,268	1,200	...	3,297

The total number of animals grazed fell from 3,645,032 in 1915-16 to 3,581,780 in the year under report and this fall comprised buffaloes 380, cows and bullocks 33,038, sheep and goats 29,300 and other animals 534. In the Berar Districts there was an increase of 30,542 animals, but this was more than compensated by the decreases of 41,100, 52,146 and 548 animals respectively in the Northern and Southern Circles and the Nimar and Betul Divisions of the Berar Circle, the result being a net reduction of 63,252 animals for the whole Province.

The decrease in the Northern Circle was due to more cattle in the North Mandla Division resorting to the raiyatwari areas and in the Jubbulpore-Narsinghpur and the Chhindwara Divisions to the Jagir forests of the latter District. In the Hoshangabad Division a good juar crop served as plentiful fodder for the village cattle, which were consequently homed.

The reduction in the Southern Circle occurred in the Bhandara, North Chanda, Balaghat, Nagpur-Wardha, and South Raipur Divisions. In the Bhandara Division, where the decrease was slight, it is attributed to the misunderstanding on the part of cattle owners as to taking out certificates from the Patwaris by the end of June. The Conservator adds that it may have been, as the Commissioner remarks, due to timely rains in the hot weather. The decrease in the North Chanda occurred among "commercial" rate cattle and was about equivalent to the increase reported last year. In the Nagpur-Wardha Division further reduction in the number of animals admitted to grazing has been effected in conformity with the provisions of the working-plan. The reduction of the number of cattle in this Division has been proceeding gradually over four years without, the Deputy Commissioner remarks, exciting any complaints from the people, and is a notable achievement, the credit for which is due to Rao Bahadur S. Shrinivasulu Nayadu, the Divisional Forest Officer. It is interesting to note that in the Wardha District, where the grazing intensity is probably more acute than elsewhere in the Circle, the people are reported to have begun to set aside part of their village lands for grazing and allow these areas to remain fallow. The Divisional Forest Officer, South-Raipur Division, considers that the decrease in his Division was due to good crops and plentiful fodder to cattle sent to malguzari and zamindari forests, partly on account of closure of coupes under the working-plan.

The prescriptions of the working-plan for the mixed forests of the Balaghat Division came into force and necessitated considerable restrictions on the number of cattle admitted to overgrazed areas. It is satisfactory to record that remarkably little opposition has been raised to these measures. The Deputy Commissioner remarks and the Conservator agrees with him, that the absence of complaints shows that the grazing problem was well dealt with by the Working Plans Officer (Mr. Carr) and by the Revenue Officer (Mr. B. N. De) who reported on it.

In the Berar Circle, though there was a marked decrease in the number of sheep and goats grazed in the forests, due partly to the transfer of considerable areas from C class to A class in the Yeotmal Division, in which latter class of forests the grazing of these animals is prohibited, and partly to nomadic herds of cattle from outside Berar being excluded from the C class forests, increases occurred in the number of buffaloes and cows and bullocks. The increase in the former cattle took place, mainly in the Amraoti, Buldana and Nimar Divisions, there being decreases in the Akola and Betul Divisions. The rise in the Amraoti and Nimar Divisions is said to be due to better supervision. The fall in the Akola Division is attributed to these animals being partly stalled and partly grazed in the village lands and that in the Betul Division is ascribed to the abundance of grass available for grazing throughout the District. The increase in the number of bullocks and cows was shared by all Divisions, except Buldana and Betul, and is said to be due to the more accurate preparation of the Patwari lists and also to greater care and better supervision exercised by the Forest Staff. The decrease in the Buldana Division is attributed to agricultural cattle not resorting to the C class forests owing to want of fodder in them, thus compelling tenants to send more cattle to the A class forests.

In the Betul Division there was a general decrease. It is reported that the inhabitants of many malguzari villages used to take out licenses for their cattle because their Government license carried the privilege of grazing in adjoining raiyatwari areas; this privilege was withdrawn by the Deputy Commissioner during the year so that the residents of these Malguzari villages went elsewhere for their grazing and, as this left more grazing in raiyatwari areas, a number of Ryotwari people were able to do without Forest pasture.

Out of the total number of animals (3,581,780) grazed in Government forests during the year 1,581,864 animals against 1,589,920 animals grazed at full rates, 1,732,682 animals against 1,789,987 grazed at privileged rates, including those at ordinary rates also and 267,234 against 265,125 animals grazed free. It will be seen from this that though the decrease in the number of animals grazed at privileged rates more or less corresponds to the reduction in the total number of animals grazed, there has been a further decrease in the number of animals grazed at full rates, thus more than half the total animals were allowed grazing at concessional rates, and this shows that the people are treated more liberally in this respect from year to year.

The grazing incidence in the Northern Circle ranged from 2.4 acres per animal in the Hoshangabad Division to 5.6 acres per animal in the South Mandla Division.

The highest incidence in the Southern Circle was returned by the Bilaspur Division with 13.1 acres per animal, the lowest 3.5 acres per head falling in the Nagpur-Wardha Division.

In the Berar Circle this incidence in the A class forests varied between 15 acres per head in the Melghat Division to 3.2 acres per head in the Yeotmal Division and in the C class forests it stood at 0.5 acre in the Buldana and Yeotmal Divisions. These incidences for the Nimar and Betul Divisions were 6.65 and 5.81 acres respectively.

Calculated on the areas open to grazing for the whole year the incidence for the whole Province stood at 2.9 acres against 2.8 acres in the preceding year.

The actual revenue derived from the total animals grazed in Government forests fell slightly (from Rs. 13,30,712 in the year 1915-16 to Rs. 13,21,424 in the year under report, i. e., a decrease of Rs. 9,288). Had all these animals been charged full rates of grazing royalty, the total value of grazing would have amounted to Rs. 23,80,648. In addition to the actual revenue of Rs. 13,21,424 referred to above transit fees to the extent of Rs. 62,313 (animals 437,034) were recovered against Rs. 51,482 and the surtax for grazing in the A class forests of Berar yielded a revenue of Rs. 2,174 against Rs. 853. The increase of Rs. 1,321 under this head is ascribed to throwing open general grazing during the hot months, on payment of Re. 0-2-0 to Re. 0-4-0, the areas reserved for fodder grass in the Yeotmal Division according to the demand for grazing in any particular area. Besides this Rs. 3,159 was levied on 4,199 buffaloes in the Melghat Division as fees for grazing of these animals in the raiyatwari waste (*vide* Appendix I, paragraph 26, Working plan), thus bringing the total actual income from grazing to Rs. 13,85,911 against Rs. 13,83,047, i. e., an increase of Rs. 2,864.

The Divisional Forest Officer, Nimar Division, has made some interesting remarks on the working of the grazing rules. The Patwaris in that District issued just under 18,000 plough certificates and practically the whole of these were checked by the Forest Staff. Plough certificates showing a higher incidence than one plough to 20 acres were challenged and 146 cases were discovered in which the number of ploughs had been incorrectly given. The Deputy Commissioner took strong action where cases of fraud were brought home to the Patwaris and seven men were punished in this connection. The consolidated "Titamma Milan Khasras" were also examined and in certain cases an increase in the number of working plough listed was found to coincide with an actual drop in the areas under cultivation. The Divisional Forest Officer has made some suggestions for improved check and also in regard to the payments to Patwaris, which are supported by the Deputy Commissioner and Commissioner, Nerbudda Division, and the Conservator should go further into the matter.

AGENCY OF EXPLOITATION—DEPARTMENTAL AGENCY.

20. The following statement compares the outturn of major forest produce in cubic feet in thousands and the value of minor forest produce extracted from

the forests by Departmental agency during the last two years —

Circle	Year	Major Produce			Minor Produce (Cubic Feet)			
		Timber	Fuel	Other	Teak	Other	Charcoal	Other
		1915-16	1916-17	1915-16	1916-17	1915-16	1916-17	1915-16
Northern	1915-16	10	224	537	315	501	202	450
	1916-17	314	721	575	1370	29	2899	150
Southern	1915-16	89	79	168	4416	4757	1085	0283
	1916-17	206	263	500	500	4173	1015	100
Berar	1915-16	260	224	403	173	2282	2230	2040
	1916-17	170	415	595	1384	1795	2208	5700
Total	1915-16	671	527	1198	5209	7570	6989	19828
	1916-17	760	899	1650	4150	6234	7095	17529
Difference	...	+89	+372	+461	-1059	-1346	+106	-2299

The total outturn of major forest produce during the year amounted to 1,659 thousand cubic feet against 1,198 thousand cubic feet in 1915-16, of which 760 thousand cubic feet against 671 thousand cubic feet was "Timber" and 899 thousand cubic feet against 527 thousand cubic feet was "Fuel". While the outturn of both the timber and fuel in the Northern Circle remained nearly the same as last year (535 against 537), there were increases of 187 thousand cubic feet in timber and 184 thousand cubic feet in fuel in the Southern Circle, and in the Berar whereas the outturn of timber fell from 269 thousand cubic feet to 170 thousand cubic feet, that under fuel showed an increase from 224 to 415. Thus the net increase for the whole Province was 461 thousand cubic feet (89 timber and 372 fuel).

It is reported that the introduction last year of the system of sale of standing coupes to contractors in the place of departmental operations in the Damoh Division has worked quite successfully. The increases in the Southern Circle, which are more than treble the last year's outturn, mainly occurred in the South-Chanda Division in respect of timber and in the North-Chanda Division in respect of 'Fuel' due to the departmental working of teak in the Allapilli Range and of Coupe No. 5 of the Walvat Felling Series in the Haveli Range respectively. In the latter Division the work was undertaken as a demonstration to lessees to show how a coupe should be worked, and it is reported that the results were interesting. Timber, firewood and charcoal are being sold and the net revenue per acre is calculated at Rs. 3-6-0 against Rs. 2 to Rs. 2-8-0 obtained by auction sales. Larger sales of timber from the teak High Forests of the Sonakhan Range in the North Raipur Division and from both Sihawa Ranges of the South Raipur Division have also contributed to the increase.

It is stated that much useful work is being done in South Chanda in bringing teak, bijasál and other timbers to the Ballarshah Depôt for sale. Some of this was kept back in the expectation of its being required for the Military Authorities. Haldu is being tested for various purposes and Ain poles were sold as pit props at quite remunerative prices.

The decrease in the outturn of timber in the Berar Circle occurred mainly in the Melghat and Botul Divisions and is said to be due in the former to small quantity of saleable timber felled in the cutting back operations, which were chiefly restricted to stems under 18" girth and in the latter to the exploitation of fewer coupes. The increase in the outturn of fuel was shared by all Divisions except Melghat and Amraoti. In the Melghat Division the decrease was due to unsaleable poles from cutting back operations having been incorrectly brought on to the books as fuel in the previous year's figures and in Amraoti to the stoppage of coppice with standards working in the mixed forests. The increase in the remaining Divisions, except Yeotmal, was due to large areas being exploited. In Yeotmal it was due to cutting of coupe lines and boundary lines necessitated by changes of area provided for in the working plan.

The value of minor forest produce extracted fell from Rs. 19,828 in 1915-16 to Rs. 17,529 in 1916-17, a decrease of Rs. 2,299 which was shared by all kinds of products. 41 tons of Aonla and Seja bark were collected in the Jubbulpore-Narsinghpur Division for supply to the Government Tannery at Allahabad, in connection with important experiments now being carried out to augment the supply of tan stuffs.

AGENCY OF EXPLOITATION—PURCHASERS

21. The amount of major produce in cubical contents in thousands and of minor produce in value removed from the forests by purchasers and consumers during the year is compared with that in the preceding year in the following statement :—

Circle.	Year.	Major produce.			Minor produce (in value)				
		Timber (in thousands)	Fuel (in thousands).	Total (in thousands)	Bamboos	Grass	Grazing.	Other.	Total.
1	2	3	4	5	6	7	8	9	10
		Cft.	Cft.	Cft.	Rs.	Rs.	Rs.	Rs.	Rs.
Northern	1915-16	1,613	4,194	5,807	59,604	19,713	4,41,753	79,258	6,00,328
	1916-17	2,135	4,706	6,841	75,587	18,380	4,25,889	93,120	6,15,285
Southern	1915-16	3,832	15,766	19,598	92,946	74,448	2,54,220	73,553	4,95,167
	1916-17	4,003	15,111	19,114	94,325	65,295	2,47,350	55,279	4,52,249
Berar	1915-16	769	2,228	2,997	88,541	71,495	6,87,074	49,319	9,16,438
	1916-17	905	2,450	3,355	1,06,289	1,14,161	7,22,672	74,131	10,17,253
Total	1915-16	6,214	22,188	28,402	2,41,094	1,75,716	13,83,647	2,12,030	20,11,887
	1916-17	7,043	22,247	29,290	2,76,199	1,97,838	13,85,911	2,22,859	20,82,787
Difference		+829	+59	+888	+35,105	+22,122	+2,864	+10,809	+70,900

For the Province as a whole there was an increase both under major and minor produce. While the outturn of timber and fuel rose from 6,214 to 7,043 (an increase of 829) thousand cubic feet and from 22,188 to 22,247 (an increase of 59) thousand cubic feet respectively, there were increases of Rs. 35,105, Rs. 22,122, Rs. 2,864 and Rs. 10,809 under bamboos, grass, grazing and other minor produce respectively. Except under fuel in the Southern Circle, which showed a small decrease, the increase in the outturn of major produce was shared by all Circles.

In the Northern Circle, though the increase was common to all Divisions owing to thorough working of coupes by contractors either under better control or by extensions granted, it is principally attributed to the inception, for the first time, in the Damoh Division, of the system of sale of standing coupes, which alone accounts for an increase of nearly 442 thousands of cubic feet. In the Hoshangabad Division there is reported to have been a good market for teak timber owing to the shortage of supplies from Burmah due to want of shipping facilities. Complaints by certain villagers in the Saugor District regarding the difficulty of obtaining their requirements for timber and fuel through coupe contractors was brought to the notice of the Divisional Forest Officer by the Deputy Commissioner, and the matter is being enquired into.

The increase in timber in the Southern Circle principally occurred in the South Raipur Division and is due to better sales of standing coupes. There was also an increase in the North-Chanda Division under timber and fire-wood. The fall under fuel in the Bhandara and Nagpur-Wardha Divisions was due to the areas exploited being poorly stocked in the former and to want of demand in the latter. In this Division the decline was to some extent attributed to the interference to extraction caused by the Army Hay operations. Excepting the lessees of Allapilli forests, Messrs. Bhickraj Sagarmal Bagla, the work of other contractors is reported to have been satisfactory.

The increase in the Berar Circle occurred in the Yeotmal, Akola and Nimar Divisions. In the former it was due to additional coupes being worked and in the Akola Division the coupes open for exploitation were more productive than those of the preceding year. The variations under minor produce have already been explained in one of the preceding sections, "Exploitation—Minor produce".

RIGHTS—PRIVILEGES AND FREE GRANTS.

22. The following statement compares the forest produce and the value thereof removed from the forests by Right-holders and Free-grantees, as well as the estimated loss sustained by the grants made at privileged or reduced rates during the last two years —

Circs.	Agency.	Major Produce.					Minor Produce (in value).									
		Timber.		Fuel.		Total.	Bamboos.		Grass.		Grazing.		Other.		Total.	
		1915-16.	1916-17.	1915-16.	1916-17.		1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.	1915-16.	1916-17.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Northern	Right-holders	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Concessionaires	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Free-grantees	63	75	374	445	437	1,851	2,030	7,342	3,769	2,485	1,448,277	1,406,330	25,128	17,402	3,540,204
Southern	Right-holders	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Concessionaires	2	8	4,646	4,435	4,648	6,888	4,371	2,859	4,087	3,299,288	3,175,669	21,346	875	7,702,331	5,204,400
	Free-grantees	90	67	565	337	664	1,869	1,718	2,388	5,371	6,923	8,146	4,509	3,177	13,583	16,312
Bihar	Right-holders	65	66	733	722	798	3,931	3,931	953	953	375	375	1,085	1,085	6,344	8,344
	Concessionaires	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Free-grantees	43	54	1,386	818	1,339	1,555	1,331	2,635	2,122	1,875,895	1,377,981	5,179	6,000	1,377,984	2,377,434
Total	Right-holders	65	66	733	722	798	3,931	3,931	953	953	375	375	1,085	1,085	6,344	8,344
	Concessionaires	2	8	4,875	4,886	4,877	15,908	31,236	1,671,663	1,689,226	4,875,565	4,631,999	46,454	18,477	2,175,332	6,027,738
	Free-grantees	205	196	2,225	1,600	2,430	2,285	5,069	12,255	12,793	1,445,113	1,406,033	11,512	13,693	1,744,104	2,705,486

*Last year's figures now corrected.

Right-holders—The quantity of forest produce removed by right holders, was placed at the disposal of the Government and is confined to the Berar Circle.

Free Grants—As compared with the year 1915-16, the quantity of timber and fuel removed by the Government was increased to 1,600 thousand cubic feet, the value of which stood at Rs. 1,76,180 against Rs. 1,74,000 in 1915-16. The produce being on all kinds of produce except the forest produce made by forest villages for home consumption and for the use of the forest villages. They were also made to the Forest Works Department in the Balaghat and Damoh Divisions for material for roads and in buildings.

OUTTURN AND SOURCES OF FOREST PRODUCE

23. The total outturn of major forest produce and the value of that of the minor forest produce extracted from the forests by all agencies during the year under review are compared with similar figures for the preceding year in the following statement:—

Circle	Timber		Fuel		Diamonds Value		Gum (Value)		Crude Oil Value		Other Forest Produce (Value)	
	1915-16.	1916-17	1915-16	1916-17	1915-16.	1916-17	1915-16	1916-17	1915-16.	1916-17.	1915-16.	1916-17.
	1	2	3	4	5	6	7	8	9	10	11	12
	Cft.	Cft.	Cft.	Cft.	K.	Rs.	Rs.	R.	Ks.	K.	R.	Rs.
Northern	1,930	2,324	1,002	1,772	61,770	55 9	27,676	2,072	1,52,017	4,119	4,119	1,07,95
Southern	4,020	4,146	10,410	15,711	99,71	66,039	1,55	72,705	2,111	2,111	7,14	6,174
Berar	1,146	1,115	4,121	3,34	04,125	1,124	7,355	1,102	15,344	1,023	6,30	5,745
Total	7,155	8,005	25,177	29,468	2,55,510	7,843	1,70,551	3,178	15,285	1,132	11,01	2,43,11

Explanations of the variations have been given in preceding sections.

FINANCIAL RESULTS.

24. The following statement compares the revenue, expenditure and surplus of the year under report with those of the year 1915-16 and average of the five years preceding thereto:—

Circle.	Year.	Revenue.	Expenditure.			Surplus	Percentage of net revenue to gross revenue.
			A.	B.	Total		
1	2	3	4	5	6	7	8
Northern	Average 1910-11 to 1914-15	Rs. 8,82,603	Rs. 2,49,758	Rs. 3,53,503	Rs. 6,07,261	2,70,347	32
	1915-16	9,61,913	1,54,333	2,87,600	5,41,842	4,27,171	44
	1916-17	10,18,501	1,05,001	3,77,961	5,72,962	4,45,539	44
Southern	Average 1910-11 to 1914-15	8,51,896	2,69,330	3,71,236	6,40,566	2,11,130	25
	1915-16	9,72,325	1,72,877	4,01,116	5,73,993	3,98,332	41
	1916-17	9,41,447	1,79,618	4,12,367	5,91,985	3,49,462	37
Berar	Average 1910-11 to 1914-15	11,55,703	2,30,190	3,45,111	5,84,301	5,71,407	49
	1915-16	12,83,457	1,66,579	3,71,313	5,37,892	7,45,565	58
	1916-17	14,30,647	2,01,017	3,84,754	5,85,771	8,44,876	60
General Division	Average 1910-11 to 1914-15	50	360	41,084	41,144	-41,394	..
	1915-16	..	795	40,504	41,299	-41,299	..
	1916-17	..	881	39,081	39,964	-39,964	..
Total	Average 1910-11 to 1914-15	28,90,062	7,38,638	11,10,034	18,69,372	10,20,690	35
	1915-16	32,20,755	4,94,584	12,00,442	16,95,026	15,25,729	47
	1916-17	34,10,505	5,76,517	12,14,165	17,90,682	16,19,823	47
Difference between 1915-16 and 1916-17		+1,89,840	+81,933	+13,723	+95,656	+94,184	..

Revenue.—The gross revenue of the Southern Circle fell from Rs. 9,72,325 in 1915-16 to Rs. 9,41,447 in 1916-17, a decrease of Rs. 30,878. However, this reduction was more than covered by the increases of Rs. 53,528 (from Rs. 9,64,973 to Rs. 10,18,501) in the Northern Circle and of Rs. 1,67,190 (from Rs. 12,83,457 to Rs. 14,50,647) in the Berar Circle, the net result being an increase of Rs. 1,89,840 for the whole Province (Rs. 34,10,595 against Rs. 32,20,755). The increase in the Northern Circle was shared by all Divisions [chiefly Hoshangabad (Rs. 48,000) and Damoh (Rs. 26,000)] except North Mandla and Chhindwara, and is said to be principally due to the higher prices obtained for sales of standing coupes, larger demands and extraction of bamboos and higher prices for lac. The fall in the revenue in the North Mandla Division was more apparent than real, as the receipts of the year 1915-16 were inclusive of commutation dues for 1916-17 realized in advance and also of the sale-proceeds of the harra collected departmentally during 1914-15. The decrease in the Chhindwara Division mainly occurred under 'grazing' and has already been explained under section "Exploitation." The Conservator, Southern Circle, again reports that but for the failure of the Allapilli lessees to keep their work up to date and to pay the instalments due, amounting to Rs. 3,36,366 in time, the revenue and surplus of his Circle would have shown a greater increase over last year. In the North Chanda and Nagpur-Wardha there was a marked absence of demand, these Divisions together showing a decrease of Rs. 71,026, and revenue from bamboos, grass and grazing in the South Raipur Division fell by Rs. 12,018. The increase in the revenue in the Berar Circle was common to all Divisions and is reported to be due mainly to better demands for produce, higher prices obtained at the auction sales of coupes owing to keen competition, better supervision of grazing arrangements and enhanced grazing revenue. The reduction of the rate for bamboos in the Ambabarwa Reserve of the Buldana Division resulted in an increased export.

The following two statements compare the sources of revenue for two years :—

	1915-16.	1916-17.	Increase or decrease.
1	2	3	4
	Rs.	Rs.	Rs.
Timber and other produce removed by Government Agency...	1,20,244	89,051	-31,193
Timber and other produce removed by purchasers, etc.—			
Timber	5,92,578	7,58,869	+1,66,291
Firewood and charcoal	2,72,098	2,69,446	-2,652
Bamboos	2,41,117	2,75,281	+34,164
Grazing and fodder grass	14,93,783	15,24,962	+31,179
Other minor produce	2,78,144	2,64,643	-13,501
Miscellaneous	2,22,791	2,28,343	+5,552
Total	32,20,755	34,10,595	+1,89,840

Circle.	Timber and Fuel		Bamboos.		Grass and grazing		Other minor produce		Miscellaneous		Total.	
	1915-16	1916-17	1915-16	1916-17	1915-16	1916-17	1915-16	1916-17	1915-16	1916-17	1915-16	1916-17
	2	3	4	5	6	7	8	9	10	11	12	13
	Rs	P	Rs	R	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs
Northern	2,85,122	3,44,710	67,311	76,501	4,61,425	4,44,260	1,02,178	96,564	57,911	50,127	6,04,133	10,1
Southern	3,91,133	4,12,868	96,027	97,282	2,61,821	2,43,544	1,47,126	1,15,031	77,918	76,770	7,77,105	9,1
Berar	2,70,362	3,45,316	85,070	1,08,335	7,71,180	8,38,912	58,609	52,958	93,916	75,116	1,43,132	14,5
Total	9,46,617	11,02,924	2,46,308	2,78,118	14,96,626	15,26,756	7,08,413	2,14,153	2,29,791	2,18,143	37,20,770	34,1
Difference	+1,56,307		31,810		+30,129		-13,958		+5,552		+1,4,940	

It will be seen from the above that for the Province as a whole while there was a reduction of Rs. 33,958 in the revenue from "Other minor products," all other sources of revenue contributed towards the increase. The income from Major Forest Produce (timber and fuel) was better in all Circles, and except from bamboos in the Southern Circles, and grazing in the Northern and Southern Circles, there was an increase in revenue from minor produce in all Circles. These variations have been explained above.

Expenditure.—The total expenditure for the year 1916-17 for the Province amounted to Rs. 17,90,682 against Rs. 16,95,026 during 1915-16 and Rs. 18,69,572, the average of the preceding five years. As compared with the year 1915-16, the expenditure under "A.—Conseivancy and works" rose from Rs. 4,94,584 to Rs. 5,76,517, an increase of Rs. 81,933. This increase was due in all Circles to more money having been spent on communications, buildings, other miscellaneous work, demarcation and other works of improvement as well as increased commission to licensed vendors. The expenditure under "B.—Establishment" amounted to Rs. 12,14,165 against Rs. 12,00,442—an increase of Rs. 13,723—which mainly occurred in the Southern and Berar Circles and was due to the increased salaries of Gazetted Officers and promotion among the subordinate staff due to the reorganization of that establishment. In the Southern Circle the stipends paid to certain private students at the Balaghat Forest School also contributed towards the increase.

Surplus.—Though the net revenue of the Southern Circle showed a decrease of Rs. 48,870, there were increases of Rs. 22,408 and Rs. 1,19,311 in the Northern and Berar Circles respectively, thus the total net revenue for the Province, after accounting for a deficit of Rs. 39,964 in the General Direction Division, amounted to Rs. 16,19,913 against Rs. 15,25,729—an increase of Rs. 94,184. However, owing to increases both under Revenue and Expenditure the percentage of net revenue to gross revenue remained the same as last year, namely, 47 per cent, but exceeded that for the average of the five years ending in 1914-15 by 12 per cent. While this percentage in the Southern Circle fell from 41 to 37, in the Northern Circle it was the same as last year, *viz.*, 44, the Berar Circle having increased from 58 to 60. It is satisfactory to note that both the gross and net revenue of the year have shown improvement over the preceding year, though depressed conditions of the markets were not altogether absent.

The following shows the progress that the Department has made financially during the last six years:—

Year			Revenue.	Surplus.	Percentage of net revenue to gross revenue.
1			2	3	4
			Rs.	Rs.	
1911-12	...	...	26,66,188	7,70,812	29
1912-13	..	..	31,21,888	11,94,948	38
1913-14	...	...	32,69,894	12,62,011	39
1914-15	...	...	32,73,539	13,92,612	43
1915-16	...	...	32,20,755	15,25,729	47
1916-17	...	..	34,10,595	16,19,913	47

It will be seen from the above that there has been generally speaking a satisfactory increase from year to year both under the gross and net income of the Department.

The percentages of revenue under its major heads to gross revenue as well as of the expenditure incurred on various works of improvement and organization and on establishment to gross revenue are shown in the following statement:—

		Northern.	Southern.	Berar	Province.
1		2	3	4	5
Total expenditure to gross revenue	...	56	63	40	51
Expenditure A to gross revenue	..	19	19	14	17
Expenditure B to gross revenue	...	37	44	26	34
Surplus to gross revenue	...	44	37	60	49
Percentage to gross revenue of—					
(1) Major Produce (timber and fuel)	...	34	44	24	32
(2) Bamboos	...	8	10	7	8
(3) Grass and grazing	..	44	26	58	45
(4) Other minor produce	...	3	12	4	8
(5) Miscellaneous	...	6	8	7	7
Percentage to gross revenue of expenditure on—					
(1) Roads and Bridges (A-VII-a)	..	3	2	3	3
(2) Buildings (A-VII-b).	..	3	1	2	2
(3) Tanks, wells, etc. (A-VII-c)	...	5	7	3	5
(4) Fire protection (A-VIII-f).	...	3	4	1	3
(5) Other works, cutting back operations (A-VII-d)	...	1	1	1	1
(6) Pay of Establishment.	...	30	34	20	28
(a) Conservators	...	2	2	1	2
(b) Superior officers	..	8	11	6	9
(c) Subordinate Establishment	..	15	15	10	13
(d) Clerical Establishment	...	5	6	3	4

NOTE.—These figures are exclusive of expenditure of the General Direction Division.

The outstandings on account of revenue at the beginning and close of the year compare as follows :—

Circle				Beginning	Close
1				2	3
				Rs.	Rs.
Northern	..	...	...	55,574	47,302
Southern	..	...	..	223,921	263,507
Berar	...	...	.	2,296	35,561
Total				294,791	449,557

The increase in the Southern Circle is due to the non-payment of the instalments amounting to Rs. 3,36,366 by the lessee of the Allapilli forests in the South Chanda Division. It should be noted that, though technically an outstanding, the timber represented by this sum has not yet been felled. The matter is receiving attention. The rise in the Berar Circle is said to be due in part to instalments of rusa grass leases falling due after the close of the year, but chiefly to the change in system of leases for combined cultivation adopted in the Amraoti Division.

The outstandings due to the department by contractors and disbursers rose from Rs. 91,589 in 1915-16 to Rs. 1,00,933 in 1916-17 (Northern Circle Rs. 19,983 against Rs. 16,236, Southern Circle Rs. 22,969 against Rs. 28,786 and Berar Circle Rs. 57,981 against Rs. 46,567). The increase in the Berar Circle is attributed to advances for departmental grass operations and remuneration to village officials.

The estimated value of live and dead stock amounted to Rs. 6,95,987 against Rs. 6,96,293. There was a decrease of Rs. 17,209 in the Southern Circle against increases of Rs. 12,587 and Rs. 4,316 in the Northern and Berar Circles, respectively. This latter increase is ascribed to the construction of new buildings.

RESEARCH AND EXPERIMENTS.

25. In the Northern Circle the experiments to test the effect of the season of felling on the coppice reproduction were continued in the Jubbulpore Range, the measurements were recorded and communicated to the Forest Botanist, to whom seed from the teak coppice shoots was also sent with a view to test its fertility. The experiments to test the effects of fires in different months of the year were again continued in the Narsinghpur District, but have been found to be of no practical use and will be discontinued. In the Saugor Division ring countings of teak were undertaken, and the results communicated to the Forest Research Institute. Samples of *Grewia* were sent to Sibpur from the Northern and Berar Circles to ascertain if the wood was fit for use in aeroplane construction. Those from the Northern Circle were found suitable and this experiment has created a demand, but sufficient timber of the size and straightness necessary to comply with the specifications is not available, and the Board of Munitions are now obtaining their requirements from other Provinces. The existing sample plots in the Berar Circle were maintained and an additional sample plot was laid out in the Melghat Division to test the rate of growth of teak in 'barra' land; the upkeep of these plots in the Southern Circle is reported to have not received sufficient attention in some cases. The matter is, however, being remedied.

Sample consignments of Dhaura tanning products were sent to the Esociet Company at Maihar from the Balaghat Division, but the result has not yet been reported. A sample consignment of Sal scantlings of small and

medium sizes for use in building construction was also sent from this Division to Nagpur to test whether such material could be profitably sold there. The Conservator remarks that if this experiment proves successful, the wastage of timber in the Sal coupes which are at present worked exclusively for sleepers will be greatly reduced.

In the Bhandara Division the experiments to ascertain the best method of eradicating Ironi creeper were continued as was done also in the Melghat Division to destroy the Nagbel creeper. The most satisfactory results in the former case are reported to have been obtained from an area in which the creeper was cut and the stumps split. The application of lime, sulphur and boiling water in the cold weather is said to have not been so successful. Sandal sowings were carried out in the Bhandara, North Chanda, South Chanda and Nagpur-Wardha Divisions and, except in the last named Division, the results were not encouraging.

In the South-Chanda Division the seasoning experiments of timber referred to last year were continued. All the logs have been converted into planks and scantlings. The Forest economist examined the timber in December 1916 and will make a final inspection during the ensuing cold weather. It is reported that an interesting experiment is being made by the Manager, Ballarhah Colliery, to test the suitability of a number of miscellaneous species of timber for pit props other than Ain (*Terminalia tomentosa*) which has hitherto been used by the Colliery. The results obtained so far have shown that Dhaura, Tendu and Mohva are the best timbers to resist rot. These props are being put to further tests, and should they prove satisfactory, a large quantity, the Conservator states, can be supplied from the Dhaba and Allapilli Ranges. 93 maunds and 23 seers of Tarwad bark (*Cassia auriculata*) from the South Chanda Division and 10 maunds of Ghotia (*Zizyphos xulopyra*) fruits from the South Raipur Division were collected and sent to the Government Hide Inspector, Bombay, for tanning purposes, as well as 20 maunds of Ain (*Terminalia tomentosa*) bark and $3\frac{1}{2}$ maunds of Tarwad pods from the former Division were supplied to the Chrome Leather Factory, Palavaram, Madras, for the same purpose.

Besides the above a consignment of 17 maunds and 4 seers of Amaltas (*Cassia Fistula*) bark was sent to the Government Hide Inspector.

In the Nagpur-Wardha Division the experiments to determine the incidence of grazing per head of cattle in the case of the forests on metamorphic rock; and the work in connection with the utilization of *Helicteres* fibre were in progress.

A sample of 60 lbs. of this fibre was sent to the Director, Imperial Institute, London, through the Forest Economist, Dehra Dun, and his report thereon is awaited.

A consignment of $12\frac{1}{2}$ maunds of unretted fibre was also sent to the Ganges Rope Company, Calcutta, with a view to test the bark in the decorticating machine, but it was reported not to have responded to the treatment. A certain amount of this fibre was also sent to the Director of Industries, United Provinces, and the Conservator of Forests, Eastern Circle, United Provinces.

In the Nimar Division four Salai logs were supplied to the Great Indian Peninsula Railway for testing this timber for wagon floors. The Kirkee Arsenal was supplied with bamboos from the Melghat Division for use as spear shafts, but they were unfavourably reported on.

It is reported that the impregnated *Terminalia* sleepers laid down on the Great Indian Peninsula Railway line in the Betul Division are showing no signs of decay. Four hundred Salai trees were tapped in the Nimar Division and 92 seers of gum obtained was made over to the Forest Economist.

An attempt on a small scale was made in the Melghat Division to adopt the principle of steam distillation for extracting rusa grass oil, which had given good results in 1914, when carried out with more elaborate apparatus as compared with the existing type of stills used by lessees. The results

obtained are reported to have been satisfactory, and the experiment will be tried shortly on a larger scale and the results communicated to the Forest Economist. In this Division an attempt was also made to give a trial to the system of nursing natural seedlings developed by Mr. Copleston in the North-Kanara Division. About 8,000 teak seedlings were marked with pegs in July 1916, weeded during the rains, earthed up in October and shaded with grass shades during the hot weather. Twenty-six per cent were found alive in July 1917. The results obtained in open areas, where damage from the drip of overhanging trees was absent, were distinctly good, but in the case of seedlings under overhead cover the system on the whole proved a failure. The effect of fire on teak germination was tested by burning a small patch of forest in Gugumal Reserve. It is reported that many seedlings appeared, but most of them had died off by January. Nine strips of forests in the Gugumal Range and four in Chikalda, each half an acre in extent, were more or less clear felled to test the effect of admission of light to the soil. Such seedlings as appeared were weeded and earthed up on the Kanara system. The results obtained in Gugumal were fairly satisfactory, while in the Chikalda Range the experiment was a failure. In the former 1,181 seedlings appeared and 788 survived the hot-weather, these figures for the latter Range being 111 and 29, respectively. The reasons for the difference are not clear. On the whole a fair amount of experimental work was carried out in the Province notwithstanding the adverse conditions.

ADMINISTRATION.

26 The writer continued in the post of the Chief Conservator throughout the year. There were no changes in the Northern and Berar Circles, the charge of which was held by Messrs. Forteath and Trafford respectively for the whole year. Mr. C. B. Smales remained in charge of the Southern Circle until 2nd December 1916, when on his transfer to Burma he was relieved by Mr. A. V. Munro on return from leave who remained in charge till the close of the year. Several changes occurred in Divisional charges according to circumstances. Mr. R. M. Williamson, Deputy Conservator of Forests, continued to officiate as Conservator of Forests in the United Provinces and Mr. Shiam Sunder Lal, Extra-Assistant Conservator of Forests, remained on deputation to the Indore State. Mr. F. J. Langhorne, Extra-Assistant Conservator of Forests, reverted to British Service from deputation to the Bastar State with effect from the 16th April 1917 and was granted three months' privilege leave from that date. Mr. W. J. Anthony, Extra-Assistant Conservator of Forests, having completed the Working Plan for the forests of the Ahiri Zamindari in the Chanda District, turned to the North-Chanda Division as attached officer on the 3rd, November 1916. In conformity with the Local Government orders contained in the Secretariat letter No 2623—X-29-2, dated the 2nd November 1914, two students from the Bilasour Court of Wards were deputed to the Southern Circle for practical training after they had passed out of the Balaghat Forest School. Mr. C. G. Hobday passed successfully from the Provincial Service Course at the Forest College at Dehra Dun and was appointed Probationary Extra-Assistant Conservator of Forests with effect from the 3rd April 1917. One candidate (Mr. C. English) and Forest Ranger G. S. Trivedi were deputed to undergo the Provincial Service Course during the year. No Imperial Officer was recruited from England and no Imperial Officer retired during the year.

Rao Bahadur Shridhar Ganesh Paranjpe, Extra Deputy Conservator of Forests, retired from Government Service on an invalid pension with effect from the 18th April 1917 and in him the department has lost an officer of wide experience. Mr. Pandurang Narayan, Extra-Assistant Conservator of Forests, who had completed his 55 years of age on the 14th April 1917 was granted an extension of service for one year.

The Chief Conservator regrets very much to have to report the deaths of Messrs. J. Donald, Deputy Conservator of Forests, Indian Army Reserve of Officers, and C. V. Sarwate, Extra-Assistant Conservator of Forests, and Forest Ranger Bhawani Prasad Kosakia during the year under report. In Mr. Donald, who died at Quetta of heart failure while on Military duty, the department has lost one of its ablest officers and his premature death is greatly regretted by all

acquainted with him. Mr Sarwate was an experienced officer of the department and his intimate knowledge of the Saugor Division, where he spent a considerable part of his service, was of particular value in connection with the exchanges of lands to simplify forest boundaries. Forest Ranger B P Kosakia, who died from fever contracted while on duty in the Nagpur-Wardha Division, is reported to have been a conscientious and zealous officer.

The work of Divisional Officers and their Assistants was generally very satisfactory, the following Officers being specially mentioned by their Conservators -- Messrs Beechey Best, George, Misra, Ukikwe, Nazir Abbas and Willford.

Subordinate Forest Service.—The supply of fodder grass to the Army Department threw a good deal of extra work on the controlling and out-door staff of the Divisions in which these operations had been undertaken and, generally speaking willing and reliable work was rendered. Several of the Rangers as well as Deputy Rangers have again been singled out by their respective Conservators for their good work; the Conservator, Southern Circle, however, reports that it is yet too early to expect much improvement in the quality of the lower subordinates as a result of the re-organization introduced last year. He points out that a great many of the Forest Guards are of short service, which indicates that the work has not much attraction to the class of men recruited. In the last three years out of an average strength of 632 Guards, 113 were dismissed or discharged and 64 resigned. This state of affairs is reported to exist in the Berar Circle also, where the recruiting and retaining men on the existing rate of pay is becoming increasingly difficult. It is, however, hoped that the training started in the Nagpur-Wardha Division may stimulate the interest taken by them in their work. It is also reported that there is still difficulty in obtaining suitable Forest Guards in the Baihar and Raigarh Ranges of the Balaghat Division.

Clerical Establishment.—With one exception, *viz.*, in Seoni, where the Head Clerk was eventually invalided out of the service, all Divisional Forest Officers commend the work of their Head Clerks, and that of the subordinate clerks has on the whole been favourably mentioned. The Chief Conservator notes with satisfaction that again this year Babus T. V. Pereaswamy and Ramcharanlal, Superintendents of the Southern and Northern Circle offices, respectively, have been commended for their work. The Conservator, Northern Circle, observes that the pay of clerks in this department is not sufficient to attract or retain men of sufficiently good qualifications to carry out the work required of them. Under such circumstances clerks not too deeply committed will not stay in the department, while recruits with desirable qualifications will either not join or merely make a convenience of it, while attempting to obtain employment elsewhere. The Conservator, Berar Circle, also reports that the difficulty of securing suitable candidates, especially in the lower grades, persists. The Chief Conservator fully concurs in the views of the Conservators and regrets that circumstances have not permitted Government to depute a special Expert Officer to examine into the state of affairs. The possibility of suggesting some temporary measure of relief, more especially to the lower paid clerks, will be considered. A provisional scheme to improve the pay and prospects of Range Clerks in Berar proper received the sanction of the Local Government during the year: under this scheme, the Rs. 15 grade has been abolished and Rs 20 fixed as the minimum pay of a Range Clerk with a number of appointments on Rs. 25.

Punishments — While the percentage of punishments in the Southern and Berar Circles fell from 13.57 to 11.44 and 18.2 to 17.3, respectively, that in the Northern Circle rose from 16.55 to 17.27. For this increase the Damoh Division is mainly responsible, there having occurred considerable decreases in the remaining Divisions, due probably to the increase of pay in the recent re-organization of the subordinate establishment. The number of punishments in the Damoh Division was very large and is reported to have been due to the standard of discipline being very low. The Chief Conservator hopes to see an improvement in this matter next year. The Conservator also points out that the small number of punishments in the Hoshangabad Division is most noticeable, and while

the conditions of the work there make perhaps for fewer opportunities of abuse of their position by Forest Guards and the lower paid subordinates than in certain other Divisions, no small praise is due to Hon'ble J. Best, Divisional Forest Officer, for the maintenance of a high standard of discipline with so little recourse to serious punishment.

Health—The year under review is reported to have been on the whole not an unhealthy one, except in the Nagpur-Waidha and North and South Raipur Divisions. In the first Division cholera was prevalent until the autumn and was soon followed by plague. While in the latter fever etc., were common. However the number of deaths during the year rose to 58 from 46 in the preceding year, the casualties among Forest Guards being unusually large, 51 against 32. In all one Ranger, one Deputy Ranger, two Foresters, 51 Forest Guards, two Clerks and one Paid Vendor died.

GENERAL

27. *Forest Villages*—In the Northern Circle two forest villages were resettled and six villages were demarcated and surveyed and sanction was accorded to the establishment of six new forest villages in the Seoni Division to keep pace with the demand for labour arising from the extension of work. Only two new forest villages were established in the Southern Circle, one each in the Balaghat and North Raipur Divisions. In the Berar Circle, while one new forest village was settled in the Nimar Division, six villages—four in Melghat and two in Betul—were abandoned during the year. In the Hoshangabad Division a large number of forest villagers were employed on the Military Grass Operations and benefitted by them. A Primary Hindi School was established in one of the villages in this Division. There were altogether 37 Gond and Korku boys in attendance.

Reading, writing and arithmetic and physical exercises are taught at present. The school is under the charge of a committee including two mukadams of forest villages. It is reported that in the Raigarh Range of the Balaghat Division several Baiga forest villages have been deserted for the reasons given below:—

- (1) The superior attractions of "Bewar" cutting in the adjacent Kawardha State.
- (2) The trouble given to the villagers by shooting parties in the hot weather.
- (3) The restrictions now imposed on grazing in accordance with the provisions of the Working Plan, the villagers having been obliged to restrain their cattle from entering the sal forests.

The Divisional Forest Officer remarks that it is probable the first of these is the most important factor. Shooting parties pay liberally for such labour as they employ, but this does not reconcile the Baiga to being forced to work when he would prefer to idle away his time in his village or in the surrounding forests. These people are notoriously restless and it is probable that many of them will return in a year or two. If not, it may be necessary to offer special attractions in order to get some of the more important villages resettled, as they are the only source of labour for forest works in this Range. The condition of the forest villages is reported to have been good in all Divisions in the Northern and Berar Circles, except the Nimar Division, where the villages are in an unstable condition as reported last year, and changes among inhabitants continue to be frequent.

Malguari Forests.—In the Northern Circle six malguari forests (one in Seoni and five in Chhindwara) were notified as requiring special protection, and in the South Mandla Division one case was reported to the Deputy Commissioner. In the Southern Circle six malguari village forests in the Balaghat Division were inspected and reported upon, and two of these were notified for protective closure. It is reported that in some cases periodical inspection by forest subordinates has been arranged for with a view to rendering the closure effective, but the

absence of any staff directly responsible for the state of these forests and for the observance of the rules regarding their treatment continues to be an obstacle to any real progress. In the Berar Circle seven malguzari forests (six in Betul and one in Nimar) were brought under this protection and four villages (three in Betul and one in Nimar) were released.

Shooting permits—Though there was an increase of 4 and 21, respectively, in the Southern and Berar Circles in the number of shooting permits issued during the year under report than in the preceding year, this was counter-balanced by a decrease of 31 permits in the Northern Circle, thus the net result being a reduction of 6 permits only (454 against 460) for the whole Province. Though poaching is said to be common enough in the Saugor Division, only two cases were reported from this Division and three from Seoni while a number of animals was illicitly killed by poachers in the South Raipur Division, and 9 cases of this nature were detected and dealt with in the Balaghat Division, there being a few cases in other Divisions calling for no special remarks. In the Balaghat Division the number of guns in forest villages has been greatly reduced and several cases under the Wild Birds and Animals Protection Act, as well as of breach of gun license conditions, have been brought to the notice of the Deputy Commissioner. To reduce the head of game in the Bhongaon Reserve in the Buldana Division of the Berar Circle, 22 chital does, 21 black buck, 25 pig and 28 nilgai were destroyed. The Commissioner, Berar, however, does not consider this result as adequate, and remarks that to do any good several hundred heads of chital and nilgai must be destroyed. In other areas of this Division special beats were organized under the supervision of the Department, which resulted in the destruction of 124 pig and nilgai. No wild cattle in the Bhongaon Reserve are reported to have been caught by the Agriculture Department during the year.

Balaghat School.—During the year experiments with a number of species of ornamental trees and shrubs were continued. Some progress was also made in connection with collections for the School Museum. During the rains a short course of training in the scientific pruning of road side trees was given to selected malis and subordinates of the Public Works Department along with the students of the Forest School.

The relations between the Forest and Revenue Officials are reported to have been satisfactory and the Chief Conservator is glad to observe that most of the Deputy Commissioners, in their forwarding notes on the Divisional Reports, have recorded their appreciation of the work of the Divisional Forest Officers.

Report on the operations undertaken to supply fodder grass to the Army Department

At the beginning of January intimation was received by Government from the Army Department that there was an urgent need of hay for export to Egypt. It was stated that 20,000 tons of grass baled in steam presses was required. Enquiries were at once made to ascertain how far the military requirements could be satisfied. It was decided that arrangements should be made to supply 20,000 tons of fodder grass either through contractors or departmentally from the three Forest Circles of the Province. The Forest Department undertook the cutting, hand baling, carting, loading into wagons and despatching of the grass to various steam pressing centres, while the Civil Department controlled the hydraulic baling, under the general supervision of Mr. A. McDonald, C. S.

Orders were issued to all Conservators to make every possible effort to comply with this demand and the 20,000 tons of grass to be supplied were distributed among the three Circles :—

		Tons	Tons
Northern Circle	..	... 9,000 to	10,000
Southern Circle		... 5,000 to	6,000
Berar Circle	...	... ..	5,000

Subsequently the allotment was revised and it stood as follows :—

		Tons.	Tons
Northern Circle ...	{ Hoshangabad Division	... 3,500	} 7,000
	{ Damoh Division ...	... 1,500
	{ Jubbulpore-Narsinghpur Division	... 1,500	
	{ Chhindwara Division	.. 300	
	{ Saugor Division	... 200	
Southern Circle ...	{ Nagpur-Wardha Division	... 3,500	} 8,000
	{ North-Chanda Division	... 2,000	
	{ Bhandara Division	... 2,500	
Berar Circle .	{ Nimar Division	... 3,000	} 5,000
	{ Betul Division	... 1,000	
	{ Yeotmal Division	... 1,000	
Total		...	<u>20,000</u>

Later on the Yeotmal Division was omitted and the amount of grass assigned to it was divided among the two Divisions of the Southern Circle, *vis.*, Nagpur-Wardha and Bhandara, 500 tons each. The whole quantity of the grass from the Southern Circle was supplied by departmental working. In the North-Chanda Division 6 grass contracts which had been already sanctioned had to be cancelled. compensation to the amount of Rs 1,742 was paid to the contractors in order that the grass might be available for the Army. In the Northern Circle all grass, with the exception of a comparatively very small quantity in the Jubbulpore-Narsinghpur and the Hoshangabad Divisions, was supplied through contractors, as was also done in the Betul Division of the Berar Circle. In the Nimar Division two-thirds of the quantity supplied was delivered departmentally and the remaining one-third by contractors. Circumstances rendered several further changes necessary in the amount of grass to be

supplied by the different Forest Divisions and the following statement exhibits the final results of the operations —

Division	Amount of grass supplied	Amount cut	Amount accepted	Amount rejected	Amount spoiled	Cost of cutting, carting, and delivery into warehouse	Cost of pressing wire etc.	Cost of specially entered material	Total of columns 4 and 10	Area cost per ton including interest on capital (column 11 divided by column 12)	Local cost of material (column 12)	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13
Hoshangabad	Rs 4,276	Rs 3,816	Rs 702	Rs 102	Rs 12	Rs. 34 0 0	Rs. 180 0 0	Rs. 77 0 0	Rs. 1,00,000	16	96	
Jubbulpore Narsinghpur	1,000	788	758	9	21	16,400 0 0	4,900 0 0		21,219	27	117	
Damoh	2,500	1,776	902	207	67	22,797 0 0		142 0 0	22,939	20	71	
Saugor	400	150	527	106½		1,260 0 0	2,067 0 0	119 0 0	3,542	22		
Chhindwar	100	229	124	95½	9½	2,502 0 0	21 0 0		2,714	12	117	
Total Northern Circle	7,476	6,168	5,532½	520	100½	1,31,718 0 0	15,254 0 0	409 0 0	1,50,410	26	361	* In addition Rs. 9,388 were spent in Conservator's office for baling wire.
Nagpur-Wardha	4,000	4,426	3,561	717	548	76,468 0 0	15,272 0 0	3,039 0 0	94,779	21	388	
Bhandara	2,000	3,629	3,485	18	126	22,709 0 0	2,898 0 0	1,758 0 0	27,364	7	295	
North-Chanda	2,000	2,512	2,225	21	287	29,161 0 0	1,851 0 0	73 0 0	31,285	12	621	
Total Southern Circle	9,000	10,567	9,271	370	926	1,28,338 0 0	20,021 0 0	5,070 0 0	1,53,429	15	1,804	
Nimai	3,500	2,785	2,645	102	78	19,15 3	1 0 1	0 1 3	54,002	19	2,857	
Betul	1,700	1,583	706	102	775	18 0 0	6 10 2	0 1 4	11,539	14	40	
Total Berar Circle	5,200	4,368	3,351	204	813	...			75,541	17	2,897	
GRAND TOTAL	21,676	21,103	18,160½	1,094	1,848½	...			1,388,763	14	5,062	† Inclusive of Rs 9,388.

The progress of the operations was considerably interfered with by the frequent unsettled weather conditions that prevailed throughout the period the work was carried out. About one-seventh of the total amount of grass cut was either rejected by the Military authorities or damaged by rain and therefore condemned in the forests and pressing depôts. In all the quantity of grass cut amounted to 21,103 tons, of which 18,160½ tons were actually delivered and accepted, while 1,094 tons were rejected and 1,848½ tons were spoiled by rain as explained above. As the request for grass was received so late in the season when most of the better quality grass had already been cut and removed from the forests by villagers, etc., to meet local demands, the major portion of the grass supplied consisted of spear grass (*Andropogon contortus*) though there was an admixture of the better species —

Mushan (*Iselma laxum*), Ghormushan (*Iselma Wightii*), Paonia (*Ischænum sulcarum*), Shainar (*Ischænum laxum*), Tatian (*Anthistiria laxa*), Kunda (*Ischænum pilosum*), Guner (*Anthistiria Ciliata*) and Mushail (*Iselma Sp.*).

Instructions were, however, issued to see that the spears were well shaken off before the grass was baled, and the cutting of grass over unburnt and ungrazed areas was resorted to as little as possible in order to avoid the inclusion of old

grass. However in the Nagpur-Wardha and other Divisions coupes which had been closed for two years or more had to be utilized, with the result that the grass delivered in some cases contained a proportion of old grass which rendered the mixture unsuitable for fodder. The cleaning out of this old grass took much time and trouble and added largely to the harassing duties of the Divisional Forest Officer, who had already in the scattered nature of his work a sufficiently difficult task. The efforts made to clean the grass were fairly successful and only 7 per cent of the grass delivered at cotton presses was rejected.

The total expenditure including the cost of presses, baling, wire and specially entertained establishment amounted to Rs. 3,88,768 (Northern Circle Rs. 1,59,798, Southern Circle Rs. 1,53,429 and Berar Circle Rs. 75,541). The sale of rejected or damaged grass yielded a revenue of Rs. 5,002 (Northern Circle Rs. 361, Southern Circle Rs. 1,804 and Berar Circle Rs. 2,897). The expenditure incurred in the operations was met by special letters of credits issued in favour of the Divisional Forest Officers concerned from time to time according to their requirements, and accounts of the expenditure were kept quite separate from the ordinary Forest accounts and forwarded to the Comptroller, Central Provinces, who made the final adjustments in his office.

Apart from the hand presses used in the Nimar Division, the number of which has not been given in the Berar report, there were 58 presses in stock (27 in the Northern Circle of which several were out of order, and 31 in the Southern Circle). In addition to these 57 hand presses (15 in the Northern Circle, 39 in the Southern Circle and 3 in the Berar Circle) were obtained either by purchase or on loan from outside the Provinces. The Conservator, Southern Circle, points out that, with the exception of the newly purchased presses, not a single press received from outside the Province but had some parts missing or broken, and arrangements for repairs and replacements had to be made and caused delay. In this connection he brings to notice the valuable assistance given by the Bengal-Nagpur Railway Company, Mr. Green, Superintendent of the Government Engineering School, Nagpur, and Mr. Desmond, the Executive Engineer, Nagpur, and adds that but for their prompt help the baling of the large quantity of grass would have been impossible.

These grass operations threw a great amount of extra work on the Forest staff of the Divisions concerned. In the Southern Circle several Foresters and Guards were taken off their ordinary duties and replaced by temporary men. All men who did well were as far as possible rewarded by temporary promotion and it is reported that many have since received permanent steps. The Chief Conservator is

*Rangers Ahmed Karim, O'Brien, Mahamed Hanif, Shanker Dayal, Vital Srivastava, Suran Singh, Govind Vishwanath Dube, and Labh Singh.

very pleased to note that several of the *Rangers and Deputy Rangers have also been specially mentioned for their good work by the Conservators of Forests, Northern and Southern Circles, and is glad to see that the work done by Messrs. W. J. Anthony and G. M. Willford, Extra-Assistant Conservators of Forests, is specially mentioned. The Conservator, Northern Circle, remarks that the ready response given by these subordinates to these operations deserves something more than a passing word of thanks and that something more concrete would be much appreciated. Their suggestion will be considered. In addition to the above the following Revenue officials and Malguzars have been mentioned for the help they rendered :—

- Mr. Lakhkar, Sub-Divisional Officer, Sakoli.
- „ N. T. Sathey, Tahsildar, Sakoli.
- „ Govind Dhondiraj Chaoji, Tahsildar.
- „ Hazari Lal, Tahsildar.
- „ Ganesh Ramchandra Deoskar, Tahsildar.
- „ Krishnaji Raghao Rotkar, Tahsildar.
- „ Sheonandan Lal, Tahsildar.
- „ Vishwanath Balkrishna Kshirasagar, Tahsildar.
- „ Syed Alay Hasan, Tahsildar.
- „ Dinkar Govind Temurnikar, Naib-Tahsildar.
- „ ~~Sankar~~ Vithaldas of the Firm of Jannadass Potdar.

Messrs. Badkas and Shankar Rao, Malguzars of Kandri and Joga, Malguzars of Arjuni and Targaon, and Messrs Udaychand and Jaisairup Shrinath, Managers of Piparia and Harda Mills.

Besides the above four Zamindars in the Bhandara District gave grass free and have received the thanks of Government.

The Department is also greatly indebted to the Deputy Commissioners concerned for the assistance rendered particularly in the collection of sufficient labour for cutting and for carts. In Bhandara Division Messrs Browne and Seale were particularly helpful and the Police Department also rendered notable assistance. It is reported also that the Bengal-Nagpur Railway Company gave invaluable assistance throughout. The work of the following Forest Officers has already been brought to the notice of the Government —

- (1) Mr D. O. Witt, Divisional Forest Officer, North-Chanda.
- (2) Mr A. A. Denbair-Brander, Divisional Forest Officer, Nimar
- (3) The Hon'ble J. W. Best, Divisional Forest Officer, Hoshangabad
- (4) Rao Bahadur Shrinivasulu Nayadu Divisional Forest Officer, Nagpur-Waidha.
- (5) Mr M. Narsingh Rao, Divisional Forest Officer, Bhandara.

To sum up 20,000 tons of grass were asked for 21,000 tons were cut and of this 18,160 tons were accepted as suitable fodder by the Military Authorities

In view of the demand coming at a time when the grass cutting season was nearly over the Chief Conservator thinks the results may be considered as creditable to the Forest Department and his thanks are due to the Conservators (Messrs. A. V. Monto, P. H. Forteach and F. Trafford) as well as those mentioned above for the assistance rendered in meeting the unexpected demand for fodder for the overseas forces.

The 5th December 1917

M. HILL,

Chief Conservator of Forests,

Central Provinces.

NUAI FORM NO. 7—[PRESCRIBED].—Area of Reserved Forests, protected Forests, Unclassed or Public Forest Land and Leased Forests, 1916-17

District	Civil District or Territory	Name of Forest	Area on 1st July 1916		Added during the year	Excluded or transferred to other land	Area on 1st June 1917		No. and date of Notification of addition or transfer, etc.	Remarks
			Acres	Equivalent in square miles	Acres	Acres	Acres	Equivalent in square miles		
1	2	3	4	5	6	7	8	9	10	11
Shahpura	Mandla	RESERVED IN 1916								
		A Class								
		Nigali, Block No. 1	2,572	4			2,572	4		Due to correction of boundary line.
		Damajhir " 2	1,538	2			1,538	2		
		Do " 2 A	370	1			370	1		
		Do " 2 B	224				224			
		Khursipar " 3	792	1			792	1		
		Do " 3 A	175				175			
		Pail Ghagra " 4	492	1	6	38	492	1		
		Paparia " 10	2,091	3			2,091	3		
		Do " 10 A	145				145			
		Do " 10 B	221				221			
		Karondi " 13	398	1			398	1		
		Do " 13 A	1,108	2			1,108	2		
		Do " 13 C	1,894	3			1,894	3		
		Do " 13-D	1,032	2			1,032	2		
		Dadargaon " 17	2,348	4			2,348	4		
		Kutdar " 18	934	1			934	1		
		Chhapra " 19	8,093	13			8,093	13		
		Do " 19-A	131				131			
		Do " 19-B	1,008	2			1,008	2		
		Do " 19 C	2,720	4			2,720	4		
		Do " 19 D	476	1			476	1		
		Do " 19-E	398	1			398	1		
		Do " 19 G	187				187			
		Do " 19-H	366	1			366	1		
		Chowrodadar " 20	2,576	4			2,576	4		
		Amadali " 22	823	1			823	1		
		Reram " 23	675	1			675	1		
		Do " 23-A	3,104	5			3,104	5		
		Do " 23-B	481	1			481	1		
		Khudri South " 24-A	1,873	3			1,873	3		
		Amdari " 25	672	1			672	1		
		Sarowahi " 26	424	1			424	1		
		Do " 26-A	148				148			
		Do " 26-B	187				187			
		Bhurka " 27	19,086	30			19,086	30		
		Khajawara " 30	987	2			987	2		
		Amera " 32	9,754	15			9,754	15		
		Do " 32-A	1,442	2			1,442	2		
		Umeria " 33-D	3,118	5			3,118	5		
		Do " 33-E	155				155			
		Masurghu " 40	30,006	47	768		31,374	48	Notification No. 590, dated the 19th October 1916.	
		Do " 40-A	328	1			328	1		
		Do " 40-B	1,630	3			1,630	3		

of Public Forest Land and Leased Forests, 1916-17. (Contd.)

Division.	Range	Civil District or Territory.	Name of Forest	Area on 1 July 1916		Added during the year.	Withdrawn or transferred to other head	Area on 31 July 1917		Net increase or decrease in area.
				Acres	Equivalent in square mile.	Acres	Acres	Acres	Equivalent in square mile.	
1	2	3	4	5	6	7	8	9	10	11
NORTH-ERN CIRCLE—(Contd.)	North Mandla.	Shahpura ..	Mandla ..	RESERVED FORESTS. (Contd.)						
				I Class.						
			Masurghuri .. 40 C	902	2	..	..	902	2	
			Do. .. 40-D	79	..	..	..	79	..	
			Bhilai .. 63	246	..	..	51	192	..	
			Shahputa .. 66	206	..	..	..	206	..	
			Total Range ..	109,525	171	774	92	110,307	172	
				II Class.						
				I Class.						
			Umaria Block No. 33 A	395	1	..	..	395	1	
			Do. .. 33-B	2,417	4	..	..	2,417	4	
			Do. .. 33-C	692	1	..	..	692	1	
			Mala .. 34	1,106	2	..	..	1,106	2	
			Do. .. 34-B	362	1	..	..	362	1	
			Do. .. 34-C	931	1	..	..	931	1	
			Lugdara .. 35	1,097	2	..	..	1,097	2	
			Do. .. 35-A	597	1	..	..	597	1	
			Dahonia .. 36	40,152	64	40	27	40,165	64	
			Do. .. 36-A	3,437	5	..	..	3,437	5	
			Barkhera .. 37	6,158	9	..	..	6,158	9	
			Khami .. 43	990	2	..	..	990	2	
			Do. .. 43A	83	..	..	..	83	..	
			Sopkhar .. 45	27,675	43	..	..	27,675	43	
			Neval Pondi .. 46	19,795	31	..	..	19,795	31	
			Do. .. 46 A	2,677	4	..	..	2,677	4	
			Bhurkund .. 47	1,730	3	..	..	1,730	3	
			Do. .. 47-A	7,811	12	..	..	7,811	12	
			Baghar .. 74	517	1	..	..	517	1	
			Total Range ..	118,712	186	40	27	118,725	186	
				A Class.						
				I Class.						
			Rengajhor North Block No. 11	315	1	..	..	315	1	
			Do. South Block No. 11A	79	..	..	..	79	..	
			Bastara .. 19	10,650	17	..	..	10,650	17	
			Bijgaon Block, No. 20	341	1	..	..	341	1	
			Pantala .. 21	1,374	2	..	..	1,374	2	
			Sahajni .. 22	379	1	..	..	379	1	
			Harni .. 23	15,995	25	..	..	15,995	25	
			Do. .. 23-A	781	1	..	..	781	1	
			Jyohari .. 24	1,469	2	..	..	1,469	2	
			Mukhas .. 25	13,643	21	..	..	13,643	21	
			Hannamatta .. 26	26,280	41	..	..	26,280	41	
			Do. South .. 26-A	88	..	..	..	88	..	

Due to correction of area.

Due to correction of area.

NUAI FORM NO. 7 — [PRESCRIBED].—Area of Reserved Forests, protected Forests, Unless and or Public Forest Land and Leased Forests, 1916-17 —(Contd.)

Range	Circuit District or Local	Name of Forest	Area on 1st July 1916		Added during the year.		Excluded or transferred to other heads		Area on 1st June 1917.		No. and date of Notification of addition or transfer, etc.	Remarks		
			Acres	Equivalent in square miles.	Acres	Acres	Acres	Equivalent in square miles						
		4	5	6	7	8	9	10	11					
RESERVED FORESTS (Contd.)														
Mandla	Mandla	Hannumatta South, Block No. 26-B	119					119		1	Notifications Nos. 414 and 415, dated the 13th July 1916. * Notification No. 346, dated the 19th June 1916.			
		Kithoua North, Block No. 2	1,568	2				1,568		2				
		Do South, 27 A	1,936	3				1,936		3				
		Do do, 27 B	378	1				378		1				
		Dungaria, 28	1,254	11				1,254		11				
		Khairi, 9	290					290						
		Gazipur North, 30	145					145						
		Do Central, 30-A	460	1				460		1				
		Do South, 30-B	445	1				445		1				
		Maljathar North, Block No. 31	28,157	44				28,157		44				
		Do South, 31-A	4,512	7				4,512		7				
		Jarangi, 32	1,357	2				1,357		2				
		Byegann, 33	333	1				333		1				
		Ataria, 36	1,510	12	69	67		1,521		12				
		Keregaon, 37	8,391	44		239		8,152		44				
		Bhaintola, Block No. 39	252					252						
		Sala, 40	1,035	2				1,035		2				
		Juna Mandla, 47	280					280						
		Piparia, 48	2,177	3				2,177		3				
		Do, 4-B	705	1				705		1				
		Ghamarwah, 74	192					192						
		Do, 74-A	494	1				494		1				
		Lalpur, 75	180					180						
		Khursipai, 77	322	1				322		1				
		Khursara, 78	486	1				486		1				
		Mohgaon, 80	480	1				480		1				
		Charygaon, 84	103					103						
		Sahuwara, 90	107					107						
		Bari, 91	116	1				116		1				
		Mania, 93	184					184						
		Total Range			162,248	253	69	306	162,011	253				
A Class.														
Dhanwahi	Jubbulpore.	Kumhi, 47	1,103	2				1,103		2				
		Richhai, 48	388	1				388		1				
		Bamni Purwai, 49	752	1				752		1				
	Mandla	Dala, 53	699	1				699		1				
		Basara, 54	17,804	28				17,804		28				
		Parasia, 55	14,280	22				14,280		22				
	Barala, 59	8,500	13				8,500		13					

Area of Reserved Forests, Protected Forests, or Public Forest Land and Leased Forests, 1916-17 - (Contd)

Division	Range	Cvd District or Territory	Name of Forest	Area on 1 July 1910		Added during the year	Deducted or transferred to other local	Area on 1 July 1911	
				Acres	In square miles	Acres	Acres	Acres	In square miles
1	2	3	4	5	6	7	8	9	10
NORTH-EASTERN CIRCLE - (Contd)	North Mandla	Shahpur	Mandla	Reserved Forests (Contd)					
				1 Class					
			Masureburgs, 40 C	902	2	..	..	902	..
			Do, 40 D	79	..	..	..	79	..
			Bhilai, 63	..	..	..	..	..	..
			Shahpura, 66	260	..	..	..	260	..
			Total Range	109,525	171	774	..	110,297	172
	Santal	Do	Umaria Block No 33 A	1 Class					
				2 Class					
			Do, 33 B	395	1	..	..	395	1
			Do, 33 C	2,417	..	..	..	2,417	..
			Do, 33 D	692	..	..	..	692	..
			Makr, 34	1,196	..	..	..	1,196	..
			Do, 34 B	362	2	..	..	362	2
			Do, 34 C	921	1	..	..	921	1
			Togdara, 35	1,097	..	..	..	1,097	..
			Do, 35 A	597	1	..	..	597	1
			Dahonia, 36	10,152	63	40	27	10,165	63
			Do, 36 A	3,437	..	..	..	3,437	..
			Barkhula, 37	6,158	9	..	..	6,158	9
			Khami, 43	990	2	..	..	990	2
			Do, 43 A	83	..	..	..	83	..
			Supkhar, 45	27,675	43	..	..	27,675	43
			Newal Pondi, 46	19,795	31	..	..	19,795	31
			Do, 46 A	2,677	4	..	..	2,677	4
			Bhurund, 47	1,730	3	..	..	1,730	3
			Do, 47 A	7,811	12	..	..	7,811	12
			Baghar, 74	517	1	..	..	517	1
			Total Range	118,712	186	40	27	118,725	186
	Mandla	Do	Reugahora North Block No. 11	1 Class					
				2 Class					
			Do, South Block No. 11A	315	1	..	..	315	1
			Do, 11A	79	..	..	..	79	..
			Bastara, 19	10,650	17	..	..	10,650	17
			Bijagaon Block, No 20	341	1	..	..	341	1
			Pantala, 21	1,374	2	..	..	1,374	2
			Sahayni, 22	379	1	..	..	379	1
			Bamm, 23	15,993	25	..	..	15,993	25
			Do, 23 A	781	1	..	..	781	1
			Juhari, 24	1,469	2	..	..	1,469	2
			Mukha, 25	15,641	25	..	..	15,641	25
			Hannamatta, 26	25,280	41	..	..	25,280	41
			Do South, 26 A	88	..	..	..	88	..

Due to correction

Due to correction

ANNUAL FORM NO 7 — [PRESCRIBED].—Area of Reserved Forests, protected Forests, Unclassified or Public Forest Land and Leased Forests, 1916-17 —(Contd)

Division	R no	District or Taluqa	Name of Forest	Area as at July 1916	Added during the year.	Excluded or transferred to other lands	Area as on June 1917		No and date of Notification of addition or transfer etc	Remarks
				Acres	Equivalent in square miles.	Acres	Acres	Equivalent in square miles.		
				4	5	7	8	9	10	11
NORTH EASTERN CIRCLE — (Contd)										
North Chandi	Mundl	Mandla	Reserved Forests (Contd)							
			A Class							
			Bhimnatta South Block No 26-B	619	..	..	..	..	..	..
			Kachha North, Block No 2.	1,468	2	..	..	1,468	..	..
			Do South, 27 A	936	3	..	..	1,936	3	..
			Do do, 27-B	371	1	..	..	371	1	..
			Dungaria, 26	7,251	21	..	..	7,251	21	..
			Khairi, 0	290	..	..	..	290	..	..
			Ganjar North, 30	145	..	..	..	145	..	..
			Do Central, 36 A	160	1	..	..	460	1	..
			Do South, 36-B	441	1	..	..	441	1	..
			Majithar North, Block No 31	16,157	44	..	..	16,157	44	..
			Do South, 31-A	4,032	1	..	..	4,032	1	..
			Jaraugi, 3	1,357	..	..	..	1,357	..	..
			Dijegron, 34	331	1	..	..	331	1	..
			Ataria, 36	7,511	12	69	67	7,511	12	..
			Kerai, 37	18,191	44	..	..	18,191	44	..
			Bhatatoli, Block No 39	252	..	..	..	252	..	..
			Soni, 40	1,031	..	..	..	1,031	..	..
			Juna Mundl, 47	260	..	..	..	260	..	..
			Piparia, 48	2,177	3	..	..	2,177	3	..
			Do, 4-B	105	1	..	..	705	1	..
			Chamarwah, 74	103	..	..	..	103	..	..
			Do, 75A	494	1	..	..	491	1	..
			Lahpui, 75	150	..	..	..	150	..	..
			Khairipai, 77	321	1	..	..	321	1	..
			Khairipai, 76	486	1	..	..	486	1	..
			Mohgaru, 80	480	1	..	..	480	1	..
			Chargron, 84	103	..	..	..	103	..	..
			Saltwara, 90	107	..	..	..	107	..	..
			Bari, 91	316	1	..	..	316	1	..
			Wania, 93	184	..	..	..	184	..	..
			Total Range	108,248	253	69	306	109,011	253	..
			B Class							
Dhanawahi	Jubbulpore	Kumhari	42	1,103	2	..	..	1,103	2	..
			43	388	1	..	..	388	1	..
			44	759	1	..	..	759	1	..
		Nandla	Dala	699	2	..	..	699	2	..
			54	17,804	28	..	..	17,804	28	..
			55	14,480	28	..	..	14,480	28	..
Dhanawahi	Jubbulpore	Nandla	59	8,320	13	..	..	8,320	13	..

Notifications Nos 414 and 415, dated the 13th July 1916.

* Notification No 316, dated the 19th June 1916

ANNUAL FORM NO 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, or Public Forest Land and Leased Forests, 1916-17. —(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest	Area on 1 July 1916		Added during the year	Excluded or transferred to other head	Area on 1 July 1917		No. and description of notifications issued		
				Acres	Equivalent in square miles.			Acres	Acres		Acres	Equivalent in square miles.
1	2	3	4	5	6	7	8	9	10		11	
NORTH-EASTERN CIRCLE— (Contd.)	North Mandla.	Shahpura	Mandla	RESERVED FOREST (Contd.)								
				1 Class								
				Misourghur, 40 C	962	3	962	3		
				Do. 10-D	70	70	..		
				Bhilai, 63	210	54	192	..		
				Shahpura, 66	206	206	..		
				Total Range	109,525	171	774	95	110,307	172		
				1 Class								
				Santhal	Do	Umaria Block No. 33-A	395	3	395	3
							Do. 33-B	2,417	2,417	4
Do. 33-C	692	1	..				..	692	1
Maka, 34	1,196	..	..				..	1,196	2
Do. 34-B	352	3	..				..	352	1
Do. 34-C	931	1	..				..	931	1
Lugdara, 35	1,097	2	..				..	1,097	2
Do. 35-A	597	1	..				..	597	1
Dahonia, 36	10,152	69	40				17	40,165	69			
Do. 36-A	3,437	5	..				..	3,437	5
Mandla	Do	Rengsjhori North Block No. 11	315	1	..	..	315	1		
			Do. South Block No. 11A	79	..	..	..	79	..
			Bastara, 19	10,650	17	..	..	10,650	17	
			Bljegaon Block, No. 20	341	1	..	..	341	1	
			Pantala, 21	1,374	2	..	..	1,374	2	
			Sahayni, 22	379	1	..	..	379	1	
			Bamm, 23	15,993	25	..	..	15,993	25	
			Do. 23A	781	1	..	..	781	1	
			Jujhar, 24	1,469	2	..	..	1,469	2	
			Minkhas, 25	13,543	21	..	..	13,543	21	
Mandla	Do	Hannamatta, 26	26,280	41	..	..	26,280	41		
			Do. South, 26-A	88	..	..	..	88	..

Due to correction of area.

Due to correction of area.

NUA1 FORM NO. 7 —[PRESCRIBED].—Area of Reserved Forests, protected Forests, Unclassified or Public Forest Land and Leased Forests, 1916-17.—(Contd.)

Range	Ch. of District or Territory	Name of Forest	Area on 1st July 1916		Added during the year	Excluded or transferred to other lands	Area on 30th June 1917		No. and date of Notification of addition or transfer, etc.	Remarks
			Acres	Equivalent in square miles			Acres	Equivalent in square miles		
			1	2	3	4	5	6	7	8
Reserved Forests—(Contd.)										
Mandla	Mandla	Kannamatta South, Block No. 26-B	119	7	..	..	119	7		
		Kathoria North, Block No. 26	1,468	2	..	..	1,468	2		
		Do South, 27-A	1,930	3	..	..	1,930	3		
		Do do, 27-B	371	1	..	..	378	1		
		Dungaria, 28	7,244	11	..	..	7,244	11		
		Khurda, 29	200	..	..	..	200	..		
		Gadipur North, 30	145	..	..	..	145	..		
		Do Central, 30-A	406	1	..	..	406	1		
		Do South, 30-B	145	1	..	..	445	1		
		Majumdar North, Block No. 31	11,187	44	..	..	11,187	44		
		Do South, 31-A	4,622	7	..	..	4,622	7		
		Jarangi, 32	1,357	2	..	..	1,357	2		
		Bijgaon, 34	131	2	..	..	133	2		Notifications Nos. 414 and 415, dated the 13th July 1916.
		Ataria, 36	1,519	12	60	67	1,521	12		
		Karegaon, 37	1,509	41	..	239	28,135	46		* Notification No. 346, dated the 19th June 1916.
		Bhatnagar, Block No. 39	282	..	..	..	282	..		
		Sola, 40	1,095	1	..	..	1,035	..		
		Juna Mandla, 47	280	..	..	..	280	..		
		Piparia, 48	1,177	3	..	..	1,177	..		
		Do, 4-B	705	1	..	..	705	1		
		Chamravah, 44	102	..	..	..	192	..		
		Do, 7-A	494	1	..	..	494	1		
		Lalpur, 75	190	..	..	..	180	..		
		Khursipai, 77	322	1	..	..	322	1		
		Khursipai, 78	480	1	..	..	480	1		
		Nobgaon, 80	480	1	..	..	480	1		
		Chargan, 84	103	..	..	..	103	..		
		Salwara, 90	107	..	..	..	107	..		
		Bari, 91	316	1	..	..	316	1		
		Mansa, 93	184	..	..	..	184	..		
		Total Range			103,248	253	69	306	162,011	251
A Class.										
Dhanwahi	Jubbulpore	Kamhi, 47	1,103	2	..	..	1,103	2		
		Richhal, 48	388	1	..	..	388	1		
		Bamni Purwa, 49	751	1	..	..	751	1		
	Mandla	Dala, 53	599	1	..	..	599	1		
		Bastara, 54	17,804	28	..	..	17,804	28		
Parara, 55		14,080	22	..	..	14,080	22			
		Barola, 59	8,220	13	..	..	8,220	13		

ANNUAL FORM NO. 7.—[PRESCRIBED]—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land and Leased Forests, 1910-11.—(Contd.)

Division.	Range	Civil District or Territory.	Name of Forest	Area on 1st July 1911		Added during the year		Deducted or transferred to other localities		Area on 31st July 1911	Equivalent in square miles	Remarks		
				Acres	Equivalent in square miles	Acres	Equivalent in square miles	Acres	Equivalent in square miles					
1	2	3	4	5	6	7	8	9	10	11	12	13		
NORTH-ERN CIRCLE— (Contd.)	North-Mandla.	Dhanwahi	Mandla	RESERVED FORESTS—(Contd.)									Added due to reclassification of area	
				A Class.										
				Bhondi, Block No. 61.	2,083	3	...	...	...	...	2,083	3		
				Kalpi " 62	34,700	54	...	...	...	...	34,700	54		
				Salawa " 63	192	1	...	...	...	...	192	1		
				Chargaon " 64	561	1	...	...	...	...	561	1		
				Piparia " 65	226	...	...	...	...	...	226	...		
				Chutla " 67	184	1	...	...	...	...	184	1		
				Kunda " 68	4,777	7	...	...	...	...	4,777	7		
				Sahaypur " 69	429	1	...	...	...	...	429	1		
				Jamthar " 72	1,537	2	...	...	...	...	1,537	2		
				Choumai " 75	3,401	6	...	...	...	...	3,401	6		
				Niwarihipa " 76	76	...	...	...	...	...	76	...		
				Jumti " 77	704	1	...	...	...	...	704	1		
				Bilalkhapa " 78	96	...	...	...	...	...	96	...		
				Bijadoni " 79	12,193	19	...	...	...	...	12,193	19		
				Jamunia " 80	1,591	3	...	...	...	...	1,591	3		
				Dobhi " 81	4,885	8	...	...	...	...	4,885	8		
				Total Range	111,065	175	2	...	...	...	111,066	175		
				Total A Class	502,460	785	86	...	...	...	502,490	786		
				Total for Division	502,469	785	86	...	...	...	502,490	786		
South-Mandla.	Dinderi	Do.	A Class.									Notifications Nos 590 and 591, dated the 19th October 1916		
			Mandla North, Block No. 41.	704	1	...	...	...	...	704	1			
			Do. South " 41-A	3,951	6	...	...	...	...	3,951	6			
			Dulepur " 50	4,062	6	...	...	...	...	4,062	6			
			Chatra " 51	9,149	14	85	...	559	...	8,675	14			
			Charpani " 52	39,209	61	...	...	...	...	39,209	61			
			Do. " 52-A	1,062	2	...	...	...	...	1,062	2			
			Do. " 52-B	230	...	...	...	...	...	230	...			
			Do. " 52-C	4,782	7	...	...	...	...	4,782	7			
			Sunderpur " 53	15,152	24	...	...	...	...	15,152	24			
			Do. " 53-A	90	...	...	...	...	...	90	...			
			Guthal " 54	97,069	152	...	...	...	...	97,069	152			
			Guari " 54-A	1,891	3	...	...	...	...	1,891	3			
			Belpani " 60	2,117	3	...	...	...	...	2,117	3			
			Total Range	179,068	279	85	...	559	...	178,794	279			

ANNUAL REPORT NO. 7.—[PRESCRIBED]—Area of Reserved Forests, Protected Forests, Contiguous or Public Forest Land and Leased Forests, 1916-17—(Contd.)

Division	District	Sub-division or Territory	Name of Forest	Area in 1916		Added during the year	Total Area in 1917	Acres	Equivalent in square miles	Acres added by Notification or transfer, etc.	Remarks
				Acres	Square miles						
				Acres	Square miles			Acres	Square miles		
				Acres	Square miles			Acres	Square miles		
NORTH-EAST WING (Contd.)											
South-Manala.	Kachin	Mandalay	RESERVED FORESTS—(Contd.)								
			A Class								
			Guthal, Block No. 34	21,065	30	..	..	21,563	..	..
			Gum, .. 59	7,788	13	..	..	7,398	13	..
			Katigahan, .. 60	492	1	..	..	192	1	..
			Bubrapur, .. 62	128,038	201	..	..	128,038	201	..
			Do, .. 62 A	3,241	5	..	..	3,241	5	..
			Total Range	163,827	250	..	..	163,827	250	..
			B Class								
			Haung Re, Block B	6,512	98	..	..	6,512	98	..
			Sepura, .. 40	1,016	6	..	..	4,016	6	..
			Mahadur, .. 44	63,85	100	..	..	63,85	100	..
			Do, .. 44-A	2,134	1	..	..	2,134	1	..
			Do, .. 44-B	3,191	5	..	..	3,191	5	..
			Do, .. 44-C	727	1	..	..	727	1	..
Do, .. 44-D	1,024	2	..	..	1,024	2	..			
Do, .. 44-E	78	1	..	..	78	1	..			
Do, .. 44-F	4,800	7	..	..	4,800	7	..			
Kachin, .. 59-A	1,547	3	..	..	1,547	3	..			
Chutthi Ponds, .. 83	28	..	..	..	28	..	..		
Kachin, .. 57	9,205	15	298	..	9,503	15	..				
Kachin, .. 41	577	1	..	..	577	1	..			
Narpi, .. 42	2,511	3	..	..	1,050	3	..			
Umrin, .. 43	879	1	..	..	879	1	..			
Bigatpur, .. 8	216	..	..	..	216	..	..		
Jhangul, .. 82	2,800	4	..	..	2,800	4	..			
Total Range				159,770	250	298	..	160,068	250	..	
C Class											
Jagmudal.	Do.	..	Alin, Block No. A	2,351	4	..	..	2,351	4	..
			Chawnggho gar C.	1,573	2	..	..	1,573	2	..
			Jagmudal Reserve J	27,792	47	..	..	27,792	47	..
			Jherka .. 28	601	1	..	..	601	1	..
			Jhaoua .. 29	953	1	..	..	953	1	..

ANNUAL FORM NO 7.--[PRESCRIBED].--Area of Reserved Forests, Protected Forests,
Unclassed or Public Forest Land and Leased Forest, 1916-17 --(Contd)

Division.	Range	Civil District or Territory	Name of Forest	Area as of July 1916.		Added during the year	Excluded during the year	Area as of July 1917.		Remarks
				Acres	Sq. miles	Acres	Acres	Acres	Sq. miles	
1	2	3	4	5	6	7	8	9	10	11
NORTH-ERN CIRCLE --(Contd.)	South Mandla.	Jagmandal	Mandla	Reserved Forests --(Contd.)						
				(Contd.)						
			M. J. Dadar, Block No. 14	3,211	6	-	-	3,211	6	
			Do. " 44-A	3,009	5	-	-	3,009	5	
			Murgu " 45	156	1	-	-	156	1	
			Madhpar " 46	506	1	-	-	506	1	
			Piparia " 48-C	18,258	29	-	-	18,258	29	
			Do " 48-D	290	-	-	-	290	-	
			Khurra Chhapar, Block No. 51	20,375	32	-	-	20,375	32	
			Do. " 51-A	101	-	-	-	101	-	
			Do " 51-B	331	1	-	-	331	1	
			Do. " 51-C	1,151	2	-	-	1,151	2	
			Chabi " 53-A	3,164	5	-	-	3,164	5	
			Theba " 54	3,609	6	-	-	3,609	6	
			Deori North " 57	141	-	-	-	141	-	
			Do " 57	1,506	2	-	-	1,506	2	
			Sonatekri " 85	307	-	-	-	307	-	
			Kasota " 86	264	-	-	-	264	-	
			Deogaon " 87	350	1	-	-	350	1	
			Dhundka " 94	204	-	-	-	204	-	
			Khurra Chhapar South, Block No. 51-A	606	1	-	-	606	1	
			Khurra Chhapar East, Block No. 51-B	463	1	-	-	463	1	
			Total Range ..	94,557	148	-	-	94,557	148	
	Motimala.	Do	Motimala, Block M.	A Class.						
				(Contd.)						
			North Phen " N.	8,522	13	-	-	8,522	13	
			South Phen " S	47,010	73	-	-	47,010	73	
			Deori " 57-B	619	1	-	-	619	1	
			Karela " 58	13,119	20	-	-	13,119	20	
			Do " 58-A	1,197	2	-	-	1,197	2	
			Do " 58-B	441	1	-	-	441	1	
			Do " 58-C	545	1	-	-	545	1	
			Kham " 58-F	746	1	-	-	746	1	
			Patel Bamni " 59	4,366	8	-	-	4,366	8	
			Jogi Gupha " 59-A	936	1	-	-	936	1	
			Do " 59-B	900	1	-	-	900	1	
			Belpani " 60	20,542	46	-	-	20,542	46	
			Tutma " 61	25,934	42	-	-	25,934	42	
			Do. (Narangpur) Block 61-A	821	1	-	-	821	1	
			Nesaz " 62	3,700	6	-	-	3,700	6	
			Total Range ..	145,471	228	-	-	145,471	228	
			Total A Class ..	742,835	1,161	385	586	742,835	1,161	
			Total for Division ..	742,835	1,161	385	586	742,835	1,161	

Notification No. 472, dated the 17th August 1916.

In the printed Annual Report for the year 1916-17, a mistake was shown in column 5 for 12,044.

*The difference of 80 acres between the last and opening balance is due to correction of mistakes in the year's closing balance.

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ANNEXURE FORM NO. 7.—(PRESCRIBED).—Use in Reserve Forests, and in Forests Unclassed or Public Forest Land and Leased Forests, 1919-17.

District	Range	Civil District or Taluk	Name of Forest	Area as at July 1911		Area as at July 1911	Area as at July 1911	Area as at July 1911	Area as at July 1911	Remarks
				Acres	Decimals	Acres	Decimals	Acres	Decimals	
1	2	3	4	5	6	7	8	9	10	11
RESERVE FORESTS—(Contd.)										
A Class										
NORTH-EASTERN CIRCLE—(Contd.)	Jubbulpore-Narsinghpur.	Jubbulpore.	Khurupani Block No. 33	4,497				4,497		
			Kunharpur " 34	5,609	9			5,609	9	
			Garhal " 35	474	2			474	2	
			Punwar " 36	2,714	3			2,714	3	
			Daroli " 37	607	1			607	1	
			Patna " 38	2,628	4			2,628	4	
			Simgarh " 39	961	2			961	2	
			Mangawan " 101	684	1			684	1	
			Amoch " 102	470	1			470	1	
			Kurn " 103	1,028	1			1,028	1	
			Juwari " 104	797	2			796	2	
			Total Range "	31,118	95		395	60,723	95	
	Jubbulpore	Do.	Kandwara Block No. 30	3,050	5			3,050	5	
			Budhari Block No. 40	2,024	3			2,024	3	
			Touri " 41	5,681	9			5,681	9	
			Ponda " 42-A	3,363	5			3,363	5	
			Potha " 43	7,538	11			7,538	11	
			Sukri " 43	1,114	2			1,114	2	
			Chutri " 44	2,044	4			2,044	4	
			By puri " 45	458	1			458	1	
			Lower Goai " 46	5,266	9			5,266	9	
			Gangai " 50	1,377	2			1,377	2	
			Distrathpur " 51	4,043	6			4,043	6	
			Total Range "	36,857	57			36,858	57	
	Bargi	Do.	Parasia Block No. 82	1,060	2			1,060	2	
			Chadwaha " 83	549	1			549	1	
			Kathetia " 84	1,679	3			1,679	3	
			Kanankhara " 85	744	1			744	1	
			Sakwara " 85-A	4,750	7			4,750	7	
			Mariheri " 86	347				347		
			Khapa " 87	365	1			365	1	
			Salwa " 88	1,356	2			1,356	2	
			Karanpathar " 89	4,679	7			4,679	7	
			Lohri " 90	4,515	7			4,515	7	
			Bargi Khao " 91	923	1			923	1	
			Narainpur " 92	487	1			487	1	
			Semra " 93	5,018	8			5,018	8	
			Tigra " 94	3,615	6			3,615	6	
			Kelme " 95	1,371	2			1,371	2	
			Pipara " 97	1,130	2			1,130	2	
			Jatan " 98	568	1			568	1	
			Total Range "	33,165	59			33,165	59	

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land and Leased Forests, 1916-17.—(Contd.)

Division	Range	Civil District or Territory	Name of Forest	Area on 1st July 1916.		Added during the year	Excluded or transferred to other heads	Area on 30th June 1917.		No. and date of Notification of addition or transfer, etc.	Remarks.
				Acres	Equivalent in square miles			Acres	Equivalent in square miles		
1	2		4	5	6	7	8	9	10	11	12
NORTH-FERN CIRCLE. (Contd.)	Jubbulpore	Narsinghpur	Jamanpatti, Block No. 1	1,911	3	..	..	1,947	3		
			Nimkhara .. 2	342	1	..	..	342	1		
			Bandha .. 3	851	1	..	..	851	1		
			Jhari .. 4	771	1	..	..	371	1		
			Bhudoni .. 5	2,012	3	..	..	2,012	3		
			Batba .. 6	4,758	7	..	..	4,75	7		
			Umargari .. 7	16,529	26	..	..	16,529	26		
			Sher Piparia .. 8	646	1	..	..	646	1		
			Tugharia .. 9	4,064	6	..	..	4,064	6		
			Gungauri .. 10	2,242	4	..	..	2,242	4		
			Sirra Dharia .. 11	6,609	10	..	..	6,609	10		
			Kinaulti .. 12	1,608	2	..	..	1,608	2		
			Dongari .. 13	3,600	6	..	..	3,600	6		
			Jamnia .. 14	640	1	..	..	640	1		
			Chawpitha .. 15	588	1	..	..	588	1		
			Gore Chapper .. 16	908	1	..	..	908	1		
			Sungori .. 17	4,697	7	..	..	4,693	7		
			Bikari .. 18	337	1	..	..	337	1		
			Pachai .. 19	14,671	23	..	..	14,674	23		
			Dadadungi .. 20	1,322	2	..	..	1,322	2		
			Kishanpur .. 21	1,643	3	..	..	1,643	3		
			Kerpani .. 22	1,015	2	..	..	1,015	2		
			Total Range	11,399	112	..	..	71,399	112		
NORTH-FERN CIRCLE. (Contd.)	Jubbulpore	Narsinghpur	RESERVED FORESTS—(Contd.)								
			A Class.								
			Bandra, Block No. 31	178	..	..	..	178	..		
			Nayagaon .. 32	1,176	2	..	..	1,176	2		
			Richai .. 33	890	1	..	..	890	1		
			Kumra .. 34	999	2	..	..	999	2		
			Ramkheria .. 35	1,302	2	..	..	1,302	2		
			Amanpali .. 36	21,619	34	..	..	21,619	34		
			Mehgawan .. 37	2,080	3	..	..	2,080	3		
			Mudkoti .. 38	11,126	18	..	..	11,126	18		
			Mehla Khapa .. 39	7,482	11	..	..	7,482	11		
			Bikrampur .. 40	328	1	..	..	328	1		
			Total Range	47,480	74	..	..	47,480	74		
NORTH-FERN CIRCLE. (Contd.)	Jubbulpore	Narsinghpur	A Class.								
			Chowgaon, Block No. 23	22,050	34	..	..	22,050	34		
			Salechanka .. 24	18,463	29	..	..	18,463	29		
			Total Range	40,513	63	..	..	40,513	63		
			Total A Class	377,852	590	..	..	377,852	590		
NORTH-FERN CIRCLE. (Contd.)	Jubbulpore	Narsinghpur	Total for Division	377,852	590	..	..	377,852	590		

ANNUAL FORM NO. 7.—[PRESCRIBED]—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land and Leased Forests, 1916-17.--(Contd)

Division.	Range.	Civil District or Territory.	Name of Forest	Area on 1st July 1916.		Added during the year	Excluded or transferred to other heads.	Area on 30th June 1917.		No. in 1917. Notice of addition or transfer, etc.	Remarks.		
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.				
1	2	3	4	5	6	7	8	9	10	11	12		
NORTH-ERN CIRCLE. —(Contd.) Damoh.	Fatehpore.	Damoh	RESERVED FORESTS —(Contd.)										
			A Class.										
			Panchamnagar, Block No. 1	2,425	4			2,425					
			Saonrai Block No. 2	6,019	9			6,019					
			Hathidol " 3	15,436	24			15,436					
			Gorakhuni " 4	4,791	7			4,791					
			Sukri " 5	4,967	8			4,967					
			Naipar " 6	7,598	12			7,598					
			Silapri " 7	7,257	11			7,257					
			Manakpura " 8	5,095	8			5,095					
			Chauraya " 9	8,224	14			8,224					
			Kanora " 10	893	1			893					
			Bhainsdoh " 11	3,584	6			3,584					
			Bani kanora " 12	3,322	5			3,322					
			Chaopra " 13	5,865	9			5,865					
			Karkuh " 14	15,142	24			15,142					
			Bharlura " 15	17,113	27			17,113					
			Marudoh " 16	319	1			319					
			Karibara " 17	6,272	9			6,272					
			Bardha " 18	7,359	11			7,359					
	Total Range	121,884	190			121,884	190						
	Damoh.	—	—	A Class.									
				Umrabo Jamnuni, Block No. 19	2,106	3			2,106				
				Mahadanda " 20	2,599	4			2,599				
				Magra, Block No. 21	11,275	18			11,275				
				Hathbar " 22	891	1			891				
				Karrat " 23	1,161	2			1,161				
				Zer " 24	6,685	11			6,685				
				Kuakho " 25	191				191				
				Pipariamal " 26	781	1			781				
				Gudri " 27	2,349	4			2,349				
				Fudri " 28	3,230	5			3,230				
				Bara ya, Khara, Block No. 29	5,098	8			5,098				
				Panda Block No. 30	1,234	2			1,234				
				Mana " 31	6,698	11			6,698				
				Garaghat " 32	991	2			991				
				Golapatti " 33	358	1			358				
				Pateria " 34	1,476	2			1,476				
				Kuemi " 35	462	1			462				
				Khamkhera " 36	4,090	6			4,090				
				Damoh " 37	1,302	2			1,302				
				Rajnagar " 38	6,690	11			6,690				
				Kulna " 39	226	1			226				
				Amata " 40	815	1			815				
				Jamunia " 41	5,844	9			5,844				
				Belakot " 42	11,507	18			11,507				
				Bahera " 43	9,074	14			9,074				
				Chitra " 44	7,068	11			7,068				
				Dhaba " 45	1,453	2			1,453				
				Somakhara " 46	1,515	2			1,515				
Jaman Hatri " 47				6,201	9			6,201					
Jamanera " 47-A	276	1			276								
Total Range	106,586	167			106,586	167							

AL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land, and Leased Forests, 1916-17.—(Contd.)

Range.	Civil District or Locality.	Name of Forest	Area on 1st July 1916		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1917		No. and date of Notification of addition or transfer, etc.	Remarks.	
			Acres	Equivalent in square miles.	Acres	Acres	Acres.	Equivalent in square miles			
1	2	3	4	5	6	7	8	9	10	11	12
Tendukhera.	Dumeh	RESERVED FORESTS—(Contd.)									
		A Class.									
		Dasonai, Block No. 48	272	}	1			271	1		
		Bhamtikhar "	274								
		Parasra "	2,641	4	"	"	2,641	4			
		Bindo Pahar "	163	"	"	"	163	"			
		Patania "	6,050	9	"	"	6,050	9			
		Hardua Hathighat, Block No. 53	777	1	"	"	777	1			
		Mohar "	8,720	14	"	"	8,720	14			
		Sanga "	9,740	15	"	"	9,740	15			
		Jhalone "	522	1	"	"	522	1			
		Schri "	915	1	"	"	915	1			
		Kuapheri "	939	2	"	"	939	2			
		Aouna "	3,763	6	"	"	3,763	6			
		Lorhi "	10,768	17	"	"	10,768	17			
		Bahera "	9,306	15	"	"	9,306	15			
		Dagdari "	8,587	13	"	"	8,587	13			
		Hathidol "	6,386	11	"	"	6,386	11			
		Hanmathigh "	10,563	16	"	"	10,563	16			
		Gopalpura "	693	1	"	"	693	1			
		Jamun "	11,095	17	"	"	11,095	17			
		Palwa "	10,023	15	"	"	10,023	15			
		Deori "	13,155	21	"	"	13,155	21			
		Barbata "	330	1	"	"	330	1			
		Sarratura "	3,977	6	"	"	3,977	6			
		Kaba Kuhl "	9,879	15	"	"	9,879	15			
		Elkrampur "	1,186	2	"	"	1,186	2			
		Dhakarwaha "	9,158	14	"	"	9,158	14			
		Lagra "	9,975	16	"	"	9,975	16			
		Dudhia "	13,730	22	"	"	13,730	22			
		Jamun Jhri "	13,521	21	"	"	13,521	21			
Phular "	721	1	"	"	721	1					
	Total Range ..	177,828	278	"	"	177,828	278				
Singra mpur.	Do. ...	Deotara, Block No. 78	7,807	12	"	"	7,807	12			
		Jhoda "	3,610	6	"	"	3,610	6			
		Rheri "	4,647	7	"	"	4,647	7			
		Tanda Kalan "	1,619	2	"	"	1,619	2			
		Chariari "	6,885	10	"	"	6,885	10			
		Bansipur "	1,068	2	"	"	1,068	2			
		Singrapur "	6,489	10	"	"	6,489	10			
		Deori "	3,644	6	"	"	3,644	6			
		Saoura "	116	"	"	"	116	"			
		Aloni "	6,384	10	"	"	6,384	10			
		Bhacurpani "	8,022	14	"	"	8,022	14			
		Gidra "	9,352	15	"	"	9,352	15			
		Nidhara "	382	1	"	"	382	1			

L FORM NO 7--[PRESCRIBED]--Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land and Leased Forests, 1916-17.--(Contd)

Range	Civil District or Territory	Tribal Area	Area on 1st June 1916		Allotted in the year	Excluded or transferred to other heads	Area on 30th June 1917		No. and date of Notification of addition or transfer, etc.	Remarks
			Acres	Equivalent in square miles	Acres	Acres	Acres	Equivalent in square miles		
			8		9	9	10		11	12
Reserved Forests--(Contd)										
A Class										
Rehli	Saugor	Mutha	Block No. 8	34,91	1	...	3,316	13		
		Dumra	"	1,021,68	10	...	1,021	10		
		Mohi	" 7	2,007,17	31	...	20,087	32		
		Bilch	"	16,683	57	...	36,688	57		
		Dewarpura	" 9	12,750,80	30	...	12,750	30		
		Gurhatoti	" 10	2,95	4	...	2,795	4		
		Sondra	" 11	1,621,40	...	...	1,623	3		
		Draupi Dehat	" 12	1,009,11	2	...	1,039	2		
		Dumra	" 13	729	2	...	729	2		
		Darara	" 13-A	277	...	...	277	...		
		Murga	" 14	576,50	1	...	577	1		
		Abchand	" 15	13,712,93	31	...	13,733	31		
		Chandrapur	" 16	599	1	...	599	1		
		Pipal	" 17	157,22	...	...	158	...		
		Jhumpani	" 18	877	2	...	877	2		
		Naratha	" 19	1,161,56	2	...	1,167	2		
		Mohandi	" 20	1,209	2	...	1,209	2		
		Patna Kaku	" 21	102	...	...	102	...		
		Chhel	" 22	1,435	2	...	1,435	2		
		Bouhri	" 23	879	2	...	879	2		
		Mohi	" 24	86,06	...	...	87	...		
		Suna	" 24-A	120	...	...	120	...		
		Banahori	"	708,02	1	...	709	1		
		Gourbhama	" 9	9	14	...	9,372	14		
		Total Range		122,285,50	191	...	122,287	191		
Saugor	Do.	Rantel, Block No. 40		165	...	...	165	...		
		Rangli	" 41	10,26,28	10	...	10,268	16		
		Khurati Tharoti	" 42	433	1	...	433	1		
		Bishanpur	" 43	414,50	1	...	415	1		
		Jaisinghnagar East, Block No. 44		1,076,21	2	...	1,076	2		
		Gondal	" 45	221,92	...	...	222	...		
		Dungari	" 46	207	...	...	207	...		
		Kaslon	" 47	924,12	2	...	924	2		
		Berkheri	" 48	162,70	2	...	163	...		
		Jera	" 49	575	1	83,62	83,13	575	1	Notifications Nos. 616 and 617, dated the 1st January 1917.
		Jaisinghnagar West, Block No. 50		1,689,87	3	...	1,690	3		
		Tendulabar	" 51	1,675	3	...	1,676	3		
		Fadral	" 52	100	...	...	100	...		
		Jamania Gond	" 53	912	1	...	912	1		
		Amet	" 54	2,390,24	4	...	2,399	4		
		Telebiri	" 55	1,205,81	2	9,26	10,53	1,206	2	Notifications Nos. 364 and 364-A, dated the 1st September 1916.
		Udipura Tiwari	" 57	2,668,46	4	...	2,667	3		
		Jawa	" 58	807	1	...	807	1		
		Sand Tal	" 59	209	...	...	209	...		

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed Public Forest Land and Leased Forests, 1916-17—(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1916		Added during the year.	Excluded or transferred to other heads	Area on 30th June 1917		No. and date of Notification of addition or transfer, etc.	Remarks
				Acres	Equivalent in square miles			Acres	Equivalent in square miles		
1	2	3	4	5	6	7	8	9	10	11	12
NORTH-EAST CIRCLE—(Contd.)											
Saugor	Saugor	Saugor	RESERVED FORESTS—(Contd.)								
			A Class.								
			Patharia, Block No. 60	2,402	4	13'38	14'30	2,397	4	Notifications Nos. 330 and 331, dated the 20th July 1916.	
			"	"	"	35'14	39'12	"	"	Notifications Nos. 344 and 345, dated the 26th August 1916.	
			Udupura " 61	85	"	"	"	85	"		
			Pagara " 62	103	"	"	"	103	"		
			Amakhurd " 63	874'80	1	"	"	875	1		
			Matia " 64	2,881	4	"	"	2,881	4		
			Chittoli " 65	6,596'72	10	"	"	6,597	10		
			Dhakoli " 66	715'09	1	"	"	715	1		
			Baheria Sahani, " 67	59	"	"	"	59	"		
			Ranipura " 69	839'54	1	"	"	840	1		
			Barkhera " 70	1,095	2	"	"	1,095	2		
			Lalak Patan " 71	2,253'28	4	"	"	2,233	4		
			Parasia Kalan " 72	418	1	"	"	418	1		
			Kali Pathar " 73	602	1	"	"	602	1		
			Bhabuka " 74	1,397	2	"	"	1,397	2		
			Bahadurpur " 75	3,374	5	"	"	3,374	5		
			Do. " 75-A	3,715	6	"	"	3,715	6		
			Do. " 75-B	680	1	"	"	680	1		
			Rahatgarh " 76	4,844'90	8	"	"	4,844	8		
			Do. " 76-A	464	1	"	"	464	1		
			Manak Chank " 77	5,140'12	8	"	*26'30	5,140	8		
			Total Range	78,350'04	123	141'40	173'55	78,349	123		
	Khurda	Do.	Kanjia, Block No. 83	535	1	"	"	535	1		
			Chhatgarh " 84	535	1	"	"	535	1		
			Dawal " 85	12,837	20	"	*1'36	12,836	20	Notification No. 338, dated the 6th June 1917.	
			Karonda " 86	357	1	"	"	357	1		
			Malithon " 87	32,157'28	50	"	"	32,157	50		
			Barodia " 89	3,366'66	5	"	"	3,367	5		
			Patharia Brahman, Block No. 90	907	3	"	"	907	3		
			Chandrapur North, Block No. 91	2,783	4	"	"	2,783	4		
			Chandrapur South, Block No. 92	5,317	9	"	"	5,317	9		
			Budhon " 93	439	1	"	"	439	1		
			Basia Gond " 94	9,205	14	39'26	44'22	9,200	14	Notifications Nos. 342 and 343, dated the 26th August 1916.	
			Total Range	100,000'00	167	221'46	273'55	100,000	167		

AL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land and Leased Forests, 1916-17.—(Contd.)

Range	Civil District or Territory	Name of Forest.	Area on 1st July 1916.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1917		No. and date of Notification of addition or transfer, etc.	Remarks.
			Acres	Equivalent in square miles.			Acres	Equivalent in square miles.		
2	3	4	5	6	7	8	9	10	11	12
Khurai	Saugor	Pirai, Block No. 96	1,446	2	...	...	1,446	2		
		Hanota Dugaha,, 96	460	1	..	..	460	1		
		Bandri West ,, 97	3,797'06	6	..	..	3,797	6		
		Bandri East ,, 98	3,565'87	6	..	..	3,566	6		
		Simaria Gurra ,, 99	589	1	..	..	589	1		
		Nonia ,, 100	913	1	..	..	913	1		
		Bandighati, Block No. 101	1,387	2	..	..	1,387	2		
		Fatehpur ,, 102	355	..	..	..	355	..		
		Kalraho ,, 103	328	...	..	..	328	...		
		Bijpur ,, 104	521	1	..	..	521	1		
		Total Range	81,582'71	127	39'16	45'88	81,576	127		
		Banda	Do.	Fatharia Gond, Block No. 105	13,837	22	13,837	22
Piparia Ghat ,, 106	10,177'97			16	...	..	10,178	16		
Patan ,, 107	9,880'40			15	..	..	9,880	15		
Zalimpur ,, 110	1,273			2	...	..	1,273	2		
Sonpur ,, 111	261'50			..	...	..	262	..		
Chauka ,, 112	350'40			1	...	..	350	1		
Bherakhas ,, 113	794'08			1	...	..	794	1		
Pehladpur ,, 114	1,809			2	...	..	1,809	2		
Chandpura ,, 115	2,565'82			4	3'27	4'27	2,569	4	*Notification No. 105-A, dated the 10th May 1917.	Due to correction of boundary line.
Bamhori Saugor,, 116	749'28			1	...	..	749	1		
Sasa, Block No. 117	404			1	...	..	404	1		
Amakoi ,, 118	2,228			3	..	..	2,228	3		
Patri Kota ,, 119	15,328'87			24	...	..	15,329	24		
Kaner,, 120	112			...	46'95	47'18 41'08	112	...	* Notifications Nos. 253 and 254, dated the 20th July 1916. No. 75-A, dated the 29th March 1917.	
Kherwaho ,, 121	7,659'07			12	...	..	7,659	12		
Dulchpur ,, 122	22,015'68			35	...	..	22,016	35		
Mohari ,, 123	773'78			1	...	..	774	1		
Chham ,, 124	9,498'40			15	10'08 130'00	194'24	9,444	15	Notifications No. 367, 368 and 369, dated the 1st September 1916.	
Shahgarh ,, 125	8,175'03			12	51'25	0'45	8,225	13	Notifications Nos. 365 and 368, dated the 1st September 1916.	
Hirapur ,, 126	1,860			3	..	..	1,860	3		
Tigorha ,, 127	561			1	...	..	561	1		
Indora ,, 128	2,117			3	...	..	2,117	3		
Total Range		111,835'02	175	24'53	24'23	111,829	175			
Total A Class		479,059'88	749	42'09	45'66	479,019	749			
Total for Division		479,059'88	749	42'09	45'66	479,019	749			

The difference of 102 acres between the 1916 and 1917 closing balances is due to correction of the mistake in the last and preceding year's closing balances.

ANNUAL FORM NO. 7—[PRESCRIBED].—Area of Reserved Forests Protected Forests, Unclassed or Public Forest Land and Leased Forests, 1916-17—(Contd)

Division.	Range.	Civil District or Territory	Name of Forest	Area on 1st July 1916		Added during the year	Excluded (1) transferred to other heads	Area on 1st June 1917		No. of notified Forests of 1st class, 2nd class, etc.	Remarks.		
				Acres	Equivalent in square miles.			Acres.	Acres			Acres	Equivalent in square miles
1	2	3	4	5	6	7	8	9	10	11	12		
NORTH-EASTERN CIRCLE.— (Contd.)				RESERVED FORESTS—(Contd.)									
				A Class.									
	Moshangabad.	Bani	Moshangabad.	Jholi Block	16,033	25			16,033	25			
				Majhora "	11,115	17			11,115	17			
				Dhain "	13,335	21			13,335	21			
				Malni "	130,265	204			130,265	204			
				Total Range	170,638	267			170,638	267			
	Sohagpur.	Do.	Do.	Bagra Block	14,415	23			14,415	23			
				Dondadeh "	6,505	10			6,505	10			
				Banaka "	21,595	34			21,595	34			
				Jhura "	17,111	27			17,111	27			
				South-Denwa "	37,395	60			37,395	60			
				Total Range	117,241	183			117,241	183			
	Moshangabad.	Do.	Do.	Nilgarh Block	25,461	40		80	25,381	40			
				Chouradeo "	20,549	33	60		20,609	33			
				Deori Jhunkar "	4,592	7			4,592	7			
				Ghogra "	967	2			967	2			
				Kasda "	754	1			754	1			
				Bardha "	1,531	3			1,531	3			
				Total Range	53,854	84	60	80	53,834	84			
	Seoni.	Do.	Do.	Pipalgota Block	23,240	36			23,240	36			
				Budhmar "	16,658	26			16,658	26			
				Lokhartalai "	28,220	44			28,220	44			
				Barasel "	34,694	55			34,694	55			
Total Range				82,812	131			82,812	131				
Rahatgaon.	Do.	Do.	Unchabura Block	34,943	54			34,943	54				
			Jawardha "	25,979	41			25,979	41				
			Gorakhal "	33,981	53			33,981	53				
			Total Range	94,903	148			94,903	148				
Magardha.	Do.	Do.	Indpura Block	24,718	39			24,718	39				
			Jarkhu "	61,568	96			61,568	96				
			Bichola "	1,855	3			1,855	3				
			Nilgarh "	440	1			440	1				
			Barnagar "	361	1			361	1				
			Joga "	1,410	3			1,410	3				
			Total Range	89,292	143			89,292	143				
			Total A Class	608,740	951	60	80	608,720	951				
Total for Division	608,740	951	60	80	608,720	951							

Notification No. 13 of 14th September 1916.

Notification No. 50 of 14th September 1916.

Notification No. 35 of 14th September 1916.

Notification No. 36 of 14th September 1916.

FORM NO. 7—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land and Leased Forests, 1916-17—(Contd.)

District	H.C. No.	Area on 1st July 1916		Added during the year	Excluded during the year	Area on 30th June 1917		No. and date of Notification of addition or transfer, etc.	Remarks
		A	Equivalent in square miles	A	A	A	Equivalent in square miles		
			6		3	9	10	11	12
				Reserved Forests—(Contd.)					
				A Class.					
Sion	Anigrah, Block No. 10	1,102	2	6,138	9	Notification No. 247, dated the 10th May 1916	Rectification of boundary line.
	Pahna, " 16	3,041	5	..	..	3,041	5
	Dalal, " 16-A	1,345	..	3 10	57 60	1,237	2		
	Dumhari, " 16-B	117	1	..	..	717	1
	Korai, " 21	61,061	95	..	..	61,061	95
	Agri, " 22	29,835	47	..	..	29,835	47
	Bumara, " 23	712	1	..	..	712	1
	Kumh, " 24	657	1	..	..	657	1
	Khatwa, " 25	6,145	10	..	..	6,145	10
	Daoli, " 26	618	1	..	..	618	1
	Hatigam, " 27	4,251	7	..	..	4,251	7
	Total Range	114,777	173	3 65	52 60	114,738	179		
Do	Khatwa, Block No. 2	1,217	3	1,217	3		
	Bawalpur, " 17-A	370	1	..	..	370	1
	Chauri, " 18	2,412	4	..	..	2,412	4
	Kuthasa, " 19	1,120	3	..	..	1,120	3
	Gangamala, " 20	61,579	96	..	..	61,579	96
	Korai, " 21	14,595	23	..	..	14,595	23
	Khatwa, " 22	7,472	11	..	..	7,472	11
	Total Range	90,004	141	..	..	90,066	141
Do	Ugla, Block No. 2	53,596	84	53,596	84	Notification No. 47, dated the 21st March 1917.	
	Katolbua, " 12-A	6,957	11	..	..	6,957	11
	Goregaon, " 13-B	3,628	6	..	..	3,628	6
	Goregaon II, " 13-C	274	..	..	..	274	..
	Piparone, " 13-D	181	..	..	..	181	..
	Karia Bahar, " 13	14,059	22	2'30	..	14,059	22		
	Ulat Behrai, " 14	6,622	10	..	..	6,622	10
	Total Range	85,146	133	2'30	..	85,147	133		
Do	Bareilly, Block No. 10	8,732	14	8,732	14		
	Amli, " 10-A	448	1	..	..	448	1
	Karondja, " 10-B	749	1	..	..	749	1
	Bhogla, " 10-C	49	..	..	..	49	..
	Sarangpur, " 10-D	235	..	..	..	235	..
	Borpani, " 10-E	684	1	..	..	684	1
	Sahajpur, " 10-F	2,965	5	..	..	2,965	5
	Putehra, " 10-G	608	1	..	..	608	1
	Megdon, " 10-H	176	..	..	..	176	..
	Wang, " 10-I	3,532	5	..	..	3,532	5
	Sakri, " 10-K	952	1	..	..	952	1
	Bijna, " 10-L	27,544	43	..	..	27,544	43

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, *U*
Public Forest Land and Leased Forests, 1916-17 —(Contd.)

Division.	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1916		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1917		Percentage of Net increase or decrease.
				Acres.	Equivalent in square miles.			Acres.	Equivalent in square miles.	
1	2	3	4	5	6	7	8	9	10	11
NORTH-EASTERN CIRCLE.— (Contd.)	RESERVED FORESTS —(Contd.)									
	A Class.									
Seoni.	Chha para.	Seoni.	Manori, Block No. 11-A.	249	...	...	...	249	...	...
			Nandia " 11-B.	366	1	...	...	366	1	...
			Bherki " 11-C.	379	1	...	...	379	1	...
			Baraola " 11-D.	773	1	...	...	773	1	...
			Bakora " 11-E.	531	1	...	...	531	1	...
			Jhimli " 11-F.	590	1	...	...	590	1	...
			Utikata " 11-G.	470	1	...	...	470	1	...
			Nakutia " 11-H.	4,984	8	...	...	4,984	8	...
			Paill " 11-J.	467	1	...	...	467	1	...
			Niwari " 11-K.	395	1	...	...	395	1	...
			Sarandla " 11-L.	580	1	...	...	580	1	...
			Gangai " 11-M.	227	...	...	...	227	...	...
			Kowaria " 11-O.	847	1	...	...	847	1	...
			Matipatan " 11-P.	7,931	13	...	...	7,931	13	...
			Dhadra " 11-Q.	380	1	...	...	380	1	...
			Bijori " 11-R.	323	1	...	...	323	1	...
			Latgaon " 11-S.	344	1	...	...	344	1	...
			Barbaspur " 11-U.	295	...	...	...	295	...	...
			Komli " 11-V.	232	...	...	...	232	...	...
			Bijna " 11-X.	243	...	...	...	243	...	...
			Total Range	67,289	105	...	...	67,289	105	...
	Dhuma.	Do.	Sherkumar, Block No. 1.	20,925	35	...	...	20,925	35	...
			Parasia " 1-A.	1,582	2	...	...	1,582	2	...
			Adeggaon " 1-B.	17,280	27	...	...	17,280	27	...
			Ramaagri " 1-C.	1,549	2	...	...	1,549	2	...
			Segar " 1-D.	311	1	...	...	311	1	...
			Sangai " 1-E.	685	1	...	...	685	1	...
			Kapargari " 1-F.	611	1	...	...	611	1	...
			Pandupura " 1-G.	131	...	...	...	131	...	...
			Soniadongri " 1-H.	2,257	4	...	...	2,257	4	...
			Kharsi " 1-K.	335	1	...	...	335	1	...
			Nagandeori " 1-L.	15,276	24	...	...	15,276	24	...
			Dargarha South " 1-O.	3,571	5	...	...	3,571	5	...
			Khapa " 1-M.	286	1	...	...	286	1	...
			Raich " 1-N.	15,347	24	...	...	15,347	24	...
			Londa " 1-P.	397	1	...	...	397	1	...
			Dargarh North " 1-Q.	1,120	2	...	...	1,120	2	...
			Total Range	81,663	128	...	...	81,663	128	...
	Narbanda.	Do.	Ghurawara, Block No. 1-J.	181	1	...	...	181	1	...
			Dhuma West Block No. 2.	11,715	18	...	...	11,715	18	...
			Dhuma, East " 2-A.	5,790	6	...	...	5,790	6	...
			Dhuma " 2-B.	812	1	...	...	812	1	...
			Bhatikhari " 2-C.	3,420	5	...	...	3,420	5	...
			Dawata " 2-D.	1,323	2	...	...	1,323	2	...

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land and Leased Forests, 1916-17.—(Contd)

Division.	Range	Civil District or Territory	Name of Forest	Area on 1st July 1916		Added during the year		Excluded or transferred to other heads		Area on 1st July 1917		No. and date of Notification of addition or transfer	Remarks
				Acres	Equivalent in square miles.	Acres	Acres	Acres	Acres	Acres	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
NORTH-EASTERN CIRCLE—(Contd.)	Soni.	Nerbudda.	Soni.	RESERVED FORESTS—(Contd.)									
				A Class.									
				Jaitpur, Block No. 2-E.	188	...	...	...	...	188	...		
				Pindrai " 2-F	158	...	...	...	...	158	...		
				Garghatia " 2-G.	275	...	...	...	...	275	...		
				Sukkam " 2-H	6,140	10	...	...	...	6,140	10		
				Rahion " 2-J.	1,118	2	...	...	...	1,118	2		
				Sahasna " 2-K	199	}	}	}	}	199	}		
				Malkhera " 2-L	228					228			
				Birwakachar " 3	5,297	8	...	...	...	5,297	8		
				Rajola " 3-A	515	1	...	...	...	515	1		
				Katori " 3-B	521	1	...	...	...	521	1		
				Roto " 4	10,052	16	...	...	...	10,052	16		
				Roto " 4-A.	2,147	3	...	...	...	2,147	3		
				Roto " 4-B.	4,028	6	...	...	...	4,028	6		
				Bichur " 4-C	317	1	...	...	...	317	1		
				Barela " 4-D	870	1	...	...	...	870	1		
				Narbada " 5	17,058	27	...	...	...	17,058	27		
				Rajawala " 6.	2,823	5	...	...	...	2,823	5		
				Kakartala " 7	3,057	5	...	...	...	3,057	5		
				Massur Bhaonri " 7-A.	25	...	...	...	...	25	...		
				Hiranbhatti " 8.	1,893	3	...	...	...	1,893	3		
				Khursipar " "	1,042	2	...	...	...	1,042	2		
				Udepur " 9-A.	878	1	...	...	...	878	1		
				Amoda " 9-B.	433	1	...	...	...	433	1		
				Dhanpura " 9-C.	715	1	...	...	...	715	1		
				Ghansor " 9-D.	196	...	...	...	...	196	...		
				Total Range	81,421	127	...	...	...	81,422	127		
				Total A Class	5,20,562	813	5'90	52'60	520,515	813			
				Total for Division	5,20,562	813	5'90	52'60	520,515	813			
CHINDWARA.	Umroth	Chhindwara.	Chhindwara.	Bilwar Kalan, Block No. 1.	785	1	...	...	...	785	1		
				Bilwar Khurd, Block No. 2.	186	...	...	...	...	186	...		
				Guradel, Block No. 3.	1,822	3	...	...	...	1,822	3		
				Jamni " 4.	188	...	...	...	...	188	...		
				Kotakhari " 5.	2,093	3	...	...	...	2,093	3		
				Marwa " 6.	877	1	...	...	...	877	1		
				Aukhawari " 7.	601	1	...	...	...	601	1		
				Imarti " 8.	380	1	...	...	...	380	1		
				Khurdi " 9.	1,860	3	...	...	...	1,860	3		
				Dhaw " 10	2,711	4	...	...	...	2,711	4		
				Banhatawa " 11.	20,639	32	...	...	...	20,639	32		
				Khamkhhera " 12.	910	1	...	...	...	910	1		
				Kokati " 13.	5,342	8	...	...	...	5,342	8		
				Kohania " 14.	4,746	7	...	...	...	4,746	7		
				Kohania " 15-A.	530	1	...	...	...	530	1		
				Sohagi " 16.	278	...	...	...	...	278	...		
				Talkhama " 17.	2,818	4	...	...	...	2,818	4		

ANNUAL FORM NO. 7.—[PRESCRIBED]—*Area of Reserved Forests, Protected Forests, Unclassed & Public Forests Land and Leased Forests, 1916-17*—(Contd)

District	Ran.	Civil District or Territory	Area in Sq. M.	Population	Added during year	Total heads
1	2	3	4	5	6	7
NORTH-ERN CIRCLE.— (Contd.)						
Chhindwara.	Umreth ...	Chhindwara	Sajon, Block No.			
			Gurda " A	208		
			Khoir " B	683		
			Clanawala " C	1,173		
			Duanwali " D	25,134		
			Chpanala " E	19,390		
			Morch " F	279		
			Mach " G	473		
			Ania " H-A	90		
			Bhanwa " I	2,438		
			Gheguparoat " J	1,056		
			Rebab " K-A	778		
			Nimboli " L	580		
			Jingaldehi " M	1,604		
			Bomlia " N	1,490		
			Total Range	1,03,914		
Amarwara.	Do.		Mraakadi, Block No. 31.	1,925		
			Pithi, Block No. 32	355		
			Nagri " 33	632		
			Lakra " 34	274		
			Khreti " 35	1,295		
			Babai " 36	384		
			Byori " 37	870		
			Duddi " 38	6,480		
			Bardia " 39	3,626		
			Ginor " 40	209		
			Naheria " 41	3,086		
			Charankhapa " 42	19,648		
			Ghatpiparia " 43	556		
			Dulera " 44	1,066		
			Bachna " 45	381		
			Charankhapa " 46	431		
			Thaouri " 47	965		
			Barha " 48	175		
			Chargan " 49	1,143		
			Futhra " 50	2,964		
			Piparia Manu " 51	706		
			Jhalundi " 52	358		
			Sahwara " 53	820		
			Markawara " 54	857		
			Unaria " 55	398		
			Jhagraboh " 56	379		
			Kirwari " 57	329		
			Surgori Khari " 58	428		
			Navegaon " 59	321		
			Thaouri " 60	3,961		
			Thasagara " 61	571		
			Urdha " 62	369		
			Rawaswar " 63	1,614		

ANNUAL FORM NO 1 - [PREPARED] -- Area of Reserved Forests, Protected Forests, Unclassed or
 Private Forest Land and Leased Forests 1916 17. -- (Contd)

District	Taluk	Village	Block	Area in Acres	Area in Hectares	Area in Gaj	Area in Sq. Miles	Remarks
NOR- THEAST CIRILL - (Contd)	Amawara	Chhindwara - (Contd)	Bhambhara, Block No 65	7,413	30	1,443	2	
				1,846	3	8,6	7	
			Lambhara, Block No 67	2,566	4	2,576	4	
			Kharra, Block No 68	749		749	1	
			Dhahara, Block No 69	674	5	3,074	5	
			Chhindwara, Block No 70	269		269		
			Dumara, Block No 71	263		263		
			Mukunda, Block No 72	1,098		1,098	2	
			Bhambhara, Block No 73	160		160		
			Pathra, Block No 74	1,115		1,115	2	
			Bhambhara, Block No 75	1,341	2	1,341	2	
			Satara, Block No 76	424	1	424	1	
			Karbhara, Block No 77	438	1	438	1	
			Total Range	6,451	103	65,751	103	
Sank	Do.		Bhambhara, Block No 77	708	1	708	1	
				806	1	806	1	
			Chhindwara, Block No 78	269		269		
			Chhindwara, Block No 79	479	1	479	1	
			Indira Khutara, Block No 80	1,626	3	1,626	3	
			Morhara, Block No 81	573	1	573	1	
			Bhambhara, Block No 82	617	1	617	1	
			Hardua, Block No 83	1,368	2	1,368	2	
			Dharmara, Block No 84	1,050	2	1,050	2	
			Devi Khatara, Block No 85	347	1	347	1	
			Gadara, Block No 86	696	1	696	1	
			Amara West, Block No 87	565	1	565	1	
			Amara East, Block No 88	12		12		
			Sank, Block No 89	1,597	3	1,597	3	
			Patra, Block No 90	251		251		
			Songara, Block No 91	344	1	344	1	
			Kannhara, Block No 92	5,084	8	5,084	8	
			Dhambhara, Block No 93	721	1	721	1	
			Gumara, Block No 94	29,039	45	29,039	45	
			Palpudhara, Block No 95	1,864	3	1,864	3	
			Palpudhara, Block No 96	86		86		
			Chhindwara, Block No 97	710	1	710	1	
			Bhadra, Block No 98	206		206		
			Kanhar Sagar, Block No 99	2,408	4	2,408	4	
			Kishanpur, Block No 100	376	1	376	1	
			Dokli, Block No 101	574	1	574	1	
			Pundra, Block No 102	312		312		
			Silota, Block No 103	118		118		
			Gumara, Block No 104	154		154		
			Salwara, Block No 105	126		126		
			Marradpur, Block No 106	389	1	389	1	
			Dadhara, Block No 107	1,679	2	1,679	2	
			Janki Khara, Block No 108	9,621	15	9,621	15	
			Total Range	65,000	103	65,000	103	

ANNUAL FORM NO. 7.—[PRESCRIBED]—Area of Reserved Forests, Protected Forests Unclassed on Public Forest Land and Leased Forests, 1916-17.—(Contd.)

Division.	Range	Civil District or Territory	Name of Forest	Area on 1st July 1916	Added during the year	Excluded or transferred to other lands	Area on 1st July 1917	Remarks
1	2	3	4	Acres	Equivalent in square miles	Acres	Acres	5
NORTH-CENTRAL CIRCLE— (Contd.)	Ambasa	Chhindwara	RESERVED FORESTS					
			Listed					
Chhindwara— (Contd.)	Ambasa	Chhindwara	Dhara Boran, Block No. 117	59	...	...	59	
			Kondar Block No. 118	700	1	...	700	1
			Wardha " 119	1,022	...	...	1,022	2
			Kurwar " 120	318	1	...	318	1
			Chichghat " 122	564	1	...	564	1
			Svapnima " 123	1,265	2	...	1,265	2
			Garmah " 124	6,019	9	...	6,019	9
			Mandwa " 12	103	1	...	103	1
			Mohi " 126	595	1	...	595	1
			Piperpani " 127	985	1	...	985	1
			Bhojkund " 128	4,752	7	...	4,752	7
			Katli " 129	66,578	104	...	66,578	104
			Ambara " 130 A	2,390	4	...	2,390	4
			De giri " 131	27,006	42	...	27,006	42
			Ghogra " 132	3,025	5	...	3,025	5
			Jamlapani " 133	496	1	...	496	1
			Seniurjari " 134	120	1	...	120	1
			Dighori " 135	162	...	...	162	...
			Chingoba " 136 A	898	1	...	898	1
			Markawara " 137	532	1	...	532	1
			Total Range	1,128,105	185	...	1,128,105	185
Sikawant	Do.	Do.	K'abai, Block No. 106	61,026	95	29	61,026	95
			Amakui, Block No. 107	413	1	...	413	1
			Nwari " 108	734	1	...	734	1
			Markaser " 109	1,654	3	...	1,654	3
			Munipar " 109-1	370	1	...	370	1
			Chichghat " 110	259	...	...	259	...
			Jamlapani " 111	527	1	...	527	1
			Bhutan Sao gi Suth, Block No. 112	2,181	3	...	2,181	3
			Bhutan North, Block No. 112-A	524	1	...	524	1
			Sadani, Block No. 113	3,034	5	...	3,034	5
			Pareghat " 114	573	1	...	573	1
			Khadi Padri " 115	1,064	2	...	1,064	2
			Total Range	72,760	114	29	72,760	114
			Total A Class	425,160	664	29	425,160	664
			Unclassified Forest	425,160	664	29	425,160	664
			Reserved Forest (Total)	4,163,772	6,506	1,756	4,163,516	6,506
			AND TOTAL FOR NORTH-CENTRAL CIRCLE	4,163,772	6,506	1,756	4,163,516	6,506

Notification No. 670, dated the 1st December 1916.

In the year 1914 the area of this block was wrongly taken as 61,026 instead of 61,026 acres.

*For the difference of 26 acres between the last and closing balanced sheet notes against the grand total of South Mandla and Sagar Divisions.

*For the difference in acres between the last and opening balances, see notes against South Mandalay Range Division.

ANNUAL FORM NO 7—[PRESCRIBED]—Area of Reserved Forests, Protected Forests Unclassed or Public Forest Land and Leased Forests, 1916-17.—(Contd)

Division	Range	Collector	Sub-collector	Area on 1st July 1917		Added during the year		Excluded during the year		Area on 30th June 1917		No. and date of Notification of addition or transfer, etc.	Remarks
				Acres	Equivalent in square miles	Acres	Equivalent in square miles	Acres	Equivalent in square miles	Acres	Equivalent in square miles		
5	2			6	7	8	9	10	11	12			
SOUTH ERN CIRCULAR													
Balaghat	Sonawati	I. I. I.	S. W. H.	61,660	6	504	...	61,504	96	Notification No. 45-A, dated the 5th March 1917			Afforested, Addition due to boundary correction.
			De. N. S. H.	4,111	95	2	...	24,115	58				
			K. M. S. H.	24,463	815	...	...	54,213	845		
	Total for Division			66,234	971	506	...	62,682	979				
Bhandara	All ranges	P. M. S. H.	All forest	5,479	524	325,456	524				
			Total A Class	3,456	524	...	...	175,456	524		
	Portabari	D. S. H.	All forest	5,479	9	...	...	5,479	9		
			Total B Class	5,479	9	...	...	5,479	9		
Total for Division			14,415	533	340,935	533					
Bilaspur	All ranges	B. S. H.	All forest	18,418	545	118,418	545				
			Total for Division	48,418	545	...	...	148,418	545		
North Chanda	Wairagarh	C. S. H.	In forest, (b) under, (c) under, (d) under	69,127	108	...	104	68,963	108	Notification No. 40-A, dated the 5th March 1917.			Disforested.
			Remainder	61,576	1,004	...	...	64,576	1,004		
	Total A Class			711,703	1,112	...	164	712,539	1,112				
	Guajwari	No.	G. S. H.	G. S. H.	21,504	35	...	1	22,303					35	Exclusion due to correction of area.
K. M. S. H.				151,727	237	...	...	151,727	237		
Total B Class			174,012	272	...	1	174,030	272					
Total for Division			885,734	1,381	...	165	885,569	1,384					
South Chanda	All ranges	D. S. H.	All forest	608,323	950	608,323	950				
			Total A Class	608,323	950	...	...	608,323	950		
	Ghot, Warkhand and Dhaba	D. S. H.	All forest	214,268	335	...	...	214,268	335		
			Total B Class	214,268	335	...	...	214,268	335		
Total for Division			3,000,000	4,500	3,000,000	4,500					

District or Range		Division		Area in Acres		Area in Hectares		Area in Sq. Miles	
1	2	3	4	5	6	7	8	9	10
SOUTH-PRN CIRCLE (Contd)									
Nagpur & Wardha	All ranges	Nagpur and Wardha,	All forests	42,929	715			45,900	15
			Total for Division	42,929	715			45,929	15
North Raipur	Raipur	Raipur	Bilabhandir	42,230	66		18	42,272	66
			Remainder	287,525	449			287,525	449
			Total for Division	329,755	515		18	329,797	515
South Raipur	Dhamtari	Do							
			Biswampur	1,955	3		7	1,948	3
			Koruma and Mogri	1,481	2	616		2,097	3
			Kandri	2,195	3		214	1,981	3
			Themli	402			402		
			Baran and Basant	1,914	3	529		2,443	4
			Isanwahi	2,814	4		529	2,285	3
			Bambagaud	1,048	2		160	868	1
			Dokai	1,084	3	584		2,268	4
			Barbaucha	5,021	9	77		5,098	9
			Besikhat and Kotarwahi	2,863	5	6.8		2,491	6
			Remainder	55,811	87			55,811	87
		Drug	Barbham (part)	1,888	3	21		1,909	3
			Ruputoli	1,488	3	10		1,504	3
			Markatola	2,959	5	13		2,972	5
			Dhanapuri	2,409	4	559		2,968	6
			Muslera	159			3	156	
			Korrajhar	154		1,071		2,225	2
			Khirdigi	4,843	8		98	4,941	8
			Sobtura	1,424	2		2	1,422	2
			Naikura	2,461	4		47	2,508	4
			Onakona	461	1			468	1
			Marwipathra	2,990	5		1	2,987	5
			Total Range	99,024	155	4,221	1,416	101,710	160
Sluggur	Raipur	Raipur	Gobrapathar and Girola	15,680	21		49	15,631	21
			Tarri and Dhol	10,991	17	49		11,040	17
			Umradehra and Alsa	13,366	21		5,007	8,359	13
			Murdhuni and Chargaon	599	1		599		
			Remainder	84,795	133			84,795	133
			Total Range	123,431	193	49	5,655	117,845	193

Location due to correction of area by the Forest Map Office, Delhi

Additions and omissions due to correction of area by the Forest Map Office, Delhi

Additions and omissions due to correction of area by the Forest Map Office, Delhi

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land and Leased Forests, 1916-17.—(Contd.)

Division.	Range	Civil District or Territory.	Name of Forest	Area on 1st July 1916.		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1917		No. and date of Notification of addition or transfer, &c.	Remarks
				Acre.	Equivalent in square miles.			Acre.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
SOUTH-ERN CIRCLE—(Contd.)	South Rai- pur.	North Si- hwa.	Raipur ...	RESERVED FORESTS.—(Contd.) A Class.							
			Umradihi and Aisa ..	...	...	5,254	...	5,254	8		
			Marduli and Jawari ..	10,526	17	424	..	10,950	18		
			Pilgron and Gondala- nala.	18,126	28	..	5	18,123	28		
			Mirahuni and Chai- gaon	10,815	17	599		11,414	18		
			Sinhohi and Tumha- hai	15,865	25		421	15,439	24		
			Kohari and Mohucla ..	8,511	13	..	731	7,780	12		
			Achholi, Dahlot and Churbhata.	9,178	12	437	..	8,615	13		
			Ghotagon and Kungela.	31,039	49	224		31,263	49		
			Birkhni and Kotai- wahi.	1,128	2	...	1,128	...			
			Remainder	45,632	71	..	...	45,632	71		
			Total Range	140,820	234	6,938	1,288	154,470	241		Additions and ex- clusions due to correction of areas by the Forest Map Office, Dehra Dun.
	South Si- hwa.	Do	Hiradihi	730	1	715	...	1,415	2		
			Bansa, Boreli and Kata- wa.	14,964	23	...	3,631	11,331	18		
			Ghoragon and Pand- lipani	10,121	16	...	676	9,445	15		
			Phoragon and Bhira- gani.	21,996	35	3,925	...	25,921	40		
			Sit madi	...	...	...	294	...	...
			Remainder	113,360	177	...	...	113,360	177		
			Total Range	161,405	258	4,640	4,601	161,504	259		Additions and ex- clusions due to correction of areas by the Forest Map Office, Dehra Dun.
South Rai- pur.	Balod	Drug	Kidari	634	1	4	...	628	1		
			Kantkaper	4,956	8	10	...	4,966	8		
			Mola and Anapara	7,184	12	81	...	7,265	11		
			Phagunda	716	1	33	...	748	1		
			Gongli	275	...	221	...	496	...		
			Kerkuti	4,939	8	93	...	5,032	8		
			Baloda and Naghar	4,172	7	41	...	4,213	7		
			Gurpal and Nara	4,684	7	30	...	4,714	7		
			Munigura	4,247	7	84	..	4,331	7		
			Nahoda	5,049	8	5	...	5,053	8		
			Orgaon and Pateli	6,304	10	70	24	6,380	10		
			Pashal and Jabkora	7,977	13	118	...	8,095	13		
			Putarwahi	4,519	7	625	...	5,144	8		
			Urhe and Chitao	4,958	8	11	...	4,969	8		
			Magadah and Jabkusa.	9,028	14	18	...	9,046	14		
			Barbhun (part)	798	1	...	9	789	1		
			Remainder	25,001	41	...	...	25,001	41		
			Total Range	98,450	154	1,433	33	99,883	156		
			Total for Division	639,190	988	17,181	14,093	656,368	994		
			Reserved Forests A Class.	4,060,310	6,325	17,687	14,185	4,077,997	6,333		
			Reserved Forests B Class.	393,778	616	...	1	393,777	616		
			Total Southern Circle	4,454,088	6,941	17,687	14,186	4,471,774	6,949		

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land and Leased Forests, 1916-17.—(Contd)

Division	Range.	Civil District or Territory.	Name of Forest.	Area on 1st July 1916		Added during the year.	Excluded or transferred to other heads.	Area on 30th June 1917.		No. and date of Notification of addition or transfer, etc.	Remarks.
				Acres	Equivalent in square miles.			Acres	Acres.			Equivalent in square miles.
1	2	3	4	5	6	7	8	9	10	11	12
RESERVED FORESTS UNDER THE IRRIGATION DEPARTMENT											
SOUTH-ERN CIRCLE. (Contd.)	Sonawan Bahar and Dhanua.	Balaghat ...	..	1,015	1	..	..	1,015	1		
			Total for Division	1,015	1	..	..	1,015	1		
Bhandara ...	Gankhuri...	Bhandara...	Kondabura	15		620		635	1	Notification No. 632, dated the 21st November 1916.	For Bodalkar tank.
			Umarjhar	580	1	29	..	609	1	Notification No. 344, dated the 14th September 1916.	For Chorkhamara tank.
			..	1,289	2	..	..	1,289	2		
			Total for Division	1,884	3	649	..	2,533	4		
Bilaspur ...	East Term.	Bilaspur ...	..	159			..	159	..		
North Chand.	Mohari Gunje-wahi.	Chanda ...	Mohari	2,143	3	8	..	2,143	3		For Naleswar tank.
			Gunjewahi	3,153	5	10	..	3,153	5		For Asola Mendha tank.
			..	4,869	8		..	4,869	8		
			Total A Class	10,157	16	18	..	10,175	16		
North Chand.	Mohari	Chanda ...	Mohari	6	..	19	..	25	..		For Naleswar tank.
			..	6	..	..	..	6	..		
			Total B Class	12	..	19	..	31	..		
			Total for Division	10,169	16	37	..	10,206	16		
South Chand.	Dhaba	Chanda ...	..	13	..	..	..	13	..		
			Total for Division	13	..	..	..	13	..		
South Chand.	Baba	Drug	..	586	1	..	..	586	1		
			Total for Division	586	1	..	..	586	1		
			Total under the Irrigation Department.								
			A Class	13,301	21	667	..	14,483	22		
			B Class	25	..	19	..	44	..		
GRAND TOTAL				15,326	21	686	..	14,527	22		

ANNUAL FORM NO. 7—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land and Leased Forests, 1916-17.—(Contd.)

Division	Taluk	Civil Station & Territory	Name of Forest	Area as at 1st July 1917		Added during the year.	Excluded or transferred to other lands.	Area on 30th June 1917.		No. and date of Notification of addition or transfer, &c.	Remarks.
				Acres	Equivalent in square miles.			Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
RESERVED FOREST UNDER THE PUBLIC WORKS DEPARTMENT.—(Contd.)											
SOUTH-EERN CIRCLE.—(Contd.)	Bandara	Peral, urli, Bhadani.	Pertangurli	4	..	4	..		} for Nawegaon Pal- andor Chichgarh road.
			Singandoh	..	..	23	..	23	..	
			..	..	..	..	..	81	..	
			Total for Division	..	61	..	27	..	108	..	
North Chan- da.	Haveli, Mohari and Warragarh.	Chanda	298	298	..		
			Total for Division	..	298	..	..	298	..	
South Chan- da.	Alipali, Markhandia and Siron-chi.	Chanda	151	151	..		
			Total A Class	..	151	..	..	151	..	
South Chan- da.	Markhandia and Siron-chi.	Chanda	187	187	..		
			Total B Class	..	187	..	..	187	..	
			Total for Division	..	338	..	..	338	..	
Nagpur- Wardha.	East Pench, Unner and Hingni.	Nagpur and Wardha.	132	132	..		
			Total for Division	..	132	..	..	132	..	
			Total under the Public Works Department	..							
			A Class	..	689	1	27	..	689	1	
			B Class	..	187	..	..	187	..	
GRAND TOTAL				..	849	1	27	..	876	1	

} for Navegaon Pak-
andor Chichgarh
road.

ANNUAL FORM NO. 7 - [PRESCRIBED] - Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land and Leased Forests, 1916-17 -- (Contd.)

Division	Range	Civil District or Territory	Name of Forest	Area on 1 July 1916		Addition during the year		Deduction during the year		Net Result of Addition or Deduction for the year	Remarks
				Acres	Equivalent in square miles	Acres	Equivalent in square miles	Acres	Equivalent in square miles		
1	2	3	4	5	6	7	8	9	10	11	12
BERAR CIRCLE.											
RESERVED FORESTS											
A Class											
Melghat	..	Amraoti ..	All Forests	751,676	1 175			51,676	1 175		
Amraoti		Do ..	Do	49,604	77			49,604	77		
Buldana	..	Buldana ..	Gumti	6,492	10	16		6,492	10	No 9 A, dated the 8th February 1917	Afforested
Do.		Do	Ghitbori	28,953	45	66		22,011	35	No 9 A and 24 A, dated the 8th February 1917	do
Do	..	Do	Amravati North	16,007	25		21	15,986	25	No 419, dated the 20th July 1916	Transferred to 'C'
Do		Do	All other Forest	108,984	171			108,984	171		
			Total	100,443	162	102	21	100,524	161		
Yestmal	..	Yestmal ..	ondwaki	19,389	30	1,019		20,408	32	(a) No 245, dated the 6th May 1916 and No 488, dated the 23rd August 1916.	Afforested
										No 580, dated the 30th June 1916.	Transferred from "C"
Yestmal	..	Yestmal ..	Kharad	19,181	30	(b) 6,004	(c) 428	24,757	39	(1) Nos 378 and 379, dated the 30th June 1916, No. 604, dated the 10th October 1916, No. 4128 A, dated the 30th June 1917, and No 16-138 C, dated the 26th July 1917	Transferred from "C"
										No. 591, dated the 19th October 1916.	Afforested.
										No 645, dated the 9th December 1916	
										(c) No 385, dated the 30th June 1916	Transferred to "C"
Do.	..	Do ..	Cahnasala	1,801	3	(d) 1,391		3,192	5	(d) No 382, dated the 30th June 1916.	do.
Do.	..	Do ..	Sonkhas	2,344	4	(e) 1,768		4,112	6	(e) Nos 770 and 582, dated the 30th June 1916.	do.
Do.	..	Do ..	Durge			(f) 3,244		3,244	5	(f) No. 381, dated the 30th June 1916.	do.
Do.	..	Do ..	Pathoat	3,317	5	424		3,741	6	No 371, dated the 30th June 1916.	do.
Do.	..	Do ..	Anjanher	7,897	12	2,330		10,166	16	No 374, dated the 30th June 1916.	do.
Do.	..	Do ..	Lonbehel	9,353	15	6,150		15,523	24	No 375, dated the 30th June 1916	do.
Do.	..	Do ..	Dabhadi	7,739	12	1,302		9,041	14	No 375, dated the 30th June 1916	do.
Do.	..	Do ..	Rai	534	1	7,004		7,538	12	No 376, dated the 30th June 1916, and Erratum No. 2-1-117 A, dated the 2nd May 1917	do.
Do.	..	Do ..	Salara			1,517		1,517		No 372, dated the 30th June 1916.	do.

ANNUAL FORM NO.

Area of Reserved Forests, Protected Forests, Unclassed or
Land and Leased Forests 1916-17. (Contd.)

District	Section	Acres	Allotted to State	Classified or transferred to other uses	Actual acres	Transfer date	No. of acres not included in transfer	Remarks

ANNUAL FORM NO. 7.—[PRESCRIBED].—Area of Reserved Forests, Protected Forests, Unclassed or Public Forest Land and Leased Forests, 1916-17.—(Concl'd.)

Division.	Range	Civil District or Territory.	Name of Forest	Area on 1st July 1916.		Added during the year.	Excluded or transferred to other heads	Area on 30th June 1917.		Number of Notations of Addition or Deduction, see	Remarks.
				Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
1	2	3	4	5	6	7	8	9	10	11	12
BERAR CIRCLE.—(Concl'd.)											
RESERVED FORESTS.—(Cont'd.)											
(C) Class.											
Akola		Akola	All Forests	80,529	126		(e) 6	80,531	126		
			GRAND TOTAL OF CLASS "C" IN BERAR.	688,494	1,076	1,754	34,424	655,824	1,025		
			GRAND TOTAL OF ALL CLASSES IN BERAR.	2,137,965	3,341	35,698	34,871	2,138,790	3,342		
(A) Class.											
Nimar	Chandgarh.	Nimar	Deha Dalkali	15,514	24		21	15,493	24		
Do.	Do	Do.	Other Forests	72,635	114			72,635	114		
			Total Range	88,149	138		22	88,127	138		
Do.	Other Ranges.	Do	All other Forests	990,572	1,548			990,572	1,548		
			Total Division	1,078,711	1,686		22	1,078,699	1,686		
Betul	Ranipar	Betul	Kharagondi	25,198	39	3		25,201	39		
Do.	Do.	Do.	Other Forests	70,308	110			70,308	110		
			Total Range	95,506	149	3		95,509	149		
Do.	Other Ranges.	Do.	All other Forests	659,900	1,031			659,900	1,031		
			Total Division	755,466	1,180	3		755,469	1,180		
			Total A Class in Nimar and Betul.	1,834,187	2,865	3	22	1,834,168	2,866		
(B-I) Class.											
Betul	All Ranges.	Betul	All Forests	5,666	9			5,666	9		
			Total Division	5,666	9			5,666	9		
			Total B-I Class in Nimar and Betul.	5,666	9			5,666	9		
			Total of all Classes in Nimar and Betul.	1,839,853	2,874	3	22	1,839,834	2,875		
			GRAND TOTAL OF ALL CLASSES IN BERAR CIRCLE.	3,977,818	6,215	35,701	34,891	3,978,614	6,217		
			GRAND TOTAL CENTRAL PROVINCES BERAR.	12,585,388	19,665	55,144	57,083	12,589,649	19,672		

No. 65-A, dated the 1st March 1917
(e) No. 68 dated the 10th January 1917

From—Charge of Survey No. only.
Disforested.

No. 548, dated the 19th September 1916.

Disforested.

No. 464, dated the 3rd August 1916.

Afforested.

FORM NO 8—*Progress made in Forest Settlements during the year 1916-17*

Forest Division			Actual area mil			Cost during year		Relative cost per square mile of area finally settled	Government Notification of Settlement	
	(1)	(2)	(3) Fully settled	(4) In process of settlement	(5) Total in hand in year	(6) In Forest Act count	(7) In other Act count		(8) No.	(9) Date
NORTHERN CIRCLE										
North Malda	V II	I	11	11	10	120			414	13th July 1916.
		II							590	19th October 1916
									1,142	11th June 1917
South Midnapur	V III	A	13	13	46	16			590	19th October 1916
		B							345	19th June 1916
Jubbulpore	J I & II								"	"
Narsinghpur	N I & II								"	"
Lamoh	L I								"	"
									341	19th June 1916.
									616	6th November 1916
									364	27th June 1916
									250	20th July 1916.
									344	29th June 1916
Sagar	S I & II								366	D.O.
									367	D.O.
									253	20th May 1916
									235	27th April 1916
									697	18th January 1917.
						14	604		669	21st December 1916.
									627	27th November 1916
Hoshangabad	H I & II		9	9					143	14th September 1916.
Soni	S I					604			47-A	21st March 1917.
Cambay	C I & II		on 5	6005					670	21st December 1916.
			16'505	6'605	'164	604				
SOUTHERN CIRCLE										
Rajahmundry	Rajahmundry	Narasaraopeta	0'79 (I)	...	0'79 (a)				(a) 461	3rd August 1916.
Kandam	Bhandara	Thandapat	...	...	0'44				(b) 45-A 411	5th March 1917. 13th July 1916.
Rajpur	Wardha	Belhar	...	...	0'55				608	and November 1916
Wardha										
Bhandarwah			...	...	0'14				416	22nd July 1916.
Botha			...	...	0'24				466	5th August 1916
Banjar and Kuratola			...	...	0'21				486	2nd August 1916
Total Southern Circle			0'79	...	2'29					

FORM NO. 8.—Progress made in Forest Settlements during the year 1916-17.—(Concl'd).

Forest Division.	Civil District or Territory.	Name of Forest.	Area in square miles.			Cost during year.		Entire cost per square mile of area settled.	Government Notification of Settlement.	
			Finally settled during year.	In hand at commencement of year.	Taken up during year.	In Local Accounts.	In other Accounts.		No.	Date.
1	2	3	4	5	6	7	8	9	10	11
BERAR CIRCLE										
R E S I D E N C I A L										
C l a s s .										
Melghat	Amraoti	"	"	"	"	"	"	"	"	"
Amraoti	Amraoti	"	"	"	"	"	"	"	"	"
Buldara	Buldara	Dhaleawangi	(1) 0'06	0'06	"	"	"	"	(1) 9-A	9th February 1917.
		Hammankhed	(2) 0'04	0'04	"	"	"	"	(1) 17	18th July 1916.
		Degaon	(3) 0'05	"	(2) 0'05	"	"	"	420	20th July 1916.
									(3) 24-A	8th February 1917.
									(4) 246	6th May 1916.
Yeotmal	Yeotmal								488	23rd August 1916.
									489	23rd August 1916.
									592	19th October 1916.
									656	9th December 1916.
		Several Villages	(4) 4'11 (5) 0'50 (6) 0'60	5'21	"	"	"	"	593	19th October 1916.
									660	9th December 1916.
									35-A	19th February 1917.
									(5)	Go to "E" class.
									(6)	Not to be notified under Section 19.
Akola	Akola	Several Villages	(7) 1'06	1'06	"	"	"	"	(7) 322	31st May 1916.
									1 118-A	19th May 1917.
		Sondoli, Yekamba and Thardi villages.	"	"	0'07	"	"	"	437	22nd July 1916.
		Several Villages	"	"	3'44	"	"	"	96-A	21st April 1916.
		Mangrul Khurd and Dabhadi villages.	"	"	1'96	"	"	"	86-C	31st May 1917.
Nimar	Nimar	"	"	"	"	"	"	"	"	"
Betul	Betul	Dharakho Railway Station.	0'05	0'05	"	"	"	"	405	3rd August 1916.
Total Berar Circle			6'43	6'37	5'53	"	"	"		
Total Central Provinces and Berar			33'019	31'180	7'256	604	"	"		

FORM NO. 9.—[PRESCRIBED].—*Record of Demarcation and Maintenance of Boundaries, 1916-17.*

Division	Length of boundary marked by pillars at close of the year	Length of boundary still to be demarcated at close of the year	Length of natural boundaries not requiring artificial marks.	Total length of boundaries at the close of the year	Expenditure on demarcation during the year		Remarks.
					On new work	On repairs	
	5	6	7	8	9	10	11
	Mile	Mile	Miles.	Miles.	Rs.	Rs.	
NORTHERN CIRCLE							
North-Mandla	1,547	168	1,765	...	1,598	(a) No expenditure incurred.	
South-Mandla	1,198	137	1,335	3	1,198	(b) Decrease of 5 miles due to changes in Form No. 7.	
Jabalpore-Narsinghpur	1,230	296	1,532	..	901		
Damoh	1,398	358	1,756	36	248	(c) Decrease of 2 miles due to changes in Form No. 7.	
Saugor	1,513	220	1,833	215	1,291	(d) For demarcating Pondi Forest village.	
Hoshangabad	469	49	518	...	1,025		
Seoni	1,076	279	1,905	...	1,125	(e) Decrease of 8 miles due to exchanges of areas.	
Chhindwara	1,452	19	1,471	78	832		
Total Northern Circle	10,639	1,476	12,115	294	8,218		
SOUTHERN CIRCLE.							
Belaghat	1,269	119	1,388	...	1,813		
Bhandara	1,258	135	1,393	...	120		
Bilaspur	364	120	484	...	120		
North-Chanda	2,076	230	2,306	...	885		
South-Chanda	705	99	804	...	595		
Nagpur-Wardha	1,174	107	1,281	...	1,296		
North-Raipur	439	119	558	*94	216	*Expenditure incurred for construction of 28 new masonry pillars.	
South-Raipur	838	36	874	9	378		

FORM NO. 9.—[PRESCRIBED].—Record of Demarcation and Maintenance of Boundaries,
1916-17.—(Concl'd)

Division.	Length of boundaries artificially demarcated during the year	Length of previously existing boundaries repaired	Length of previously existing boundaries not repaired	Total length of artificially marked boundaries at close of the year.	Length of boundaries still to be demarcated at close of the year	Length of natural boundaries not requiring artificial marks	Total length of boundaries at the close of the year	Expenditure on demarcation during the year		Remarks
								On new work.	On repairs	
1	2	3	4	5	6	7	8	9	10	11
	Miles.	Miles	Miles.	Miles	Miles	Miles	Miles	Rs	Rs	
BERAR CIRCLE										
Maighat A Class	...	92	226	318	..	58	376	.	370	
Amraoti { A Class	...	...	390	390	.	13	403		..	
	...	.	3,070	3,070		17	3,087		.	
Buldana { A Class	...	64	495	559	..	15	574	...	262	
	...	158	496	655	..	...	665	3	174	
Yeotmal { A Class	56	...	972	1,028	109	52	1,180	592	80	
	..	.	4,042	4,042	.	..	4,042	...	...
Akola { A Class	43		884	927	30	11	968	620	11	
	...	...	...	...	...	...	...	3	66	
Nimar A Class	...	269	794	1,063	...	301	1,364	...	1,362	
Netaji { A Class	..	811	385	1,196	...	178	1,374	104	713	
	...	2	24	26	...	8	34	..	...
Total Berar Circle	100	1,396	11,778	13,274	139	653	14,066	1,322	3,038	
GRAND TOTAL CENTRAL PROVINCES AND BERAR.	133	9,330	22,567	32,036	139	3,094	35,269	1,719	16,699	

FORM No. 10.

FORM No 10.—[PRESCRIBED]—Statement of Forest areas surveyed and under

Division	Area surveyed and under survey during the											
	Special surveys—Maps on 2 inch scale or over by Survey of India Department or Forest Survey Branch						Ordinary included in topographical Programme of the Survey of India or in District Surveys					
	With interior details			Boundary Surveys			With interior details			Boundary Surveys		
	Previous	Of year	Total cost	Previous	Of year	Total cost	Previous	Of year	Total cost	Previous	Of year	Total cost
1	2	3	4	5	6	7	8	9	10	11	12	13
NORTHERN CIRCLE	Sq Ms	Sq Ms	Rs	Sq Ms	Sq Ms	Rs	Sq Ms	Sq Ms	R	Sq Ms	Sq Ms	R
North-Mandla	754		57,267							32		
South-Mandla	1,135		57,358							21		
Jubbulpore-Narsinghpur	591		69,160									
Damoh	792		2,12,429									
Saugor	752		79,030									
Hoshangabad	1,211		18,873									
Seoni	827		60,146									
Chhindwara	712		49,185									
Total Northern Circle	6,774		6,03,804							53		
SOUTHERN CIRCLE												
Balaghat	954		45,963									
Bhandara	533		36,822									
Bilaspur	(a) 624		42,549									
North-Chanda	3,066		86,999									
South-Chanda												
Nagpur-Wardha	705		60,467									
North-Raipur	1,386		1,03,818									
South Raipur												
Total Southern Circle	7,268		3,76,618									
BERAR CIRCLE.												
Melghat	1,175											
Amraoti						224	39			259		
Buldana	126						323			1,225		
Yestmal							732			2,137		
Akola							212			920		
Nimar	1,657		5,309				29			29		
Betal	1,189		20,207									
Total Berar Circle	4,147		25,516			224	1,335			4,570		
GRAND TOTAL FOR CENTRAL	18,180		10,00,000			224	1,335			4,570		

Survey during the car 1916 1,

Year 1966-67					Area main- ing to be taken (11)	Total Forest at end of the year (12) in thousands of acres No. 7	Cost		Per cent of total cost of all forests at end of the year	Per cent of total cost of all forests at end of the year
Chromola							Oil	Lumber		
With 1000										
Previous	Of year	1	2	3	4	5	6	7		
14	15	1	2	3	4	5	6	7		
89 M										

FORM NO. 11.—Progress made in Working Plans during the year 1916-17.

Division.	Area under sanctioned Working Plans.					Area not under Working Plans			Total forest area in Form No. 7 (Total of columns 5, 7, 8 and 9)	Revisions.			Expenditure on Working Plans during the year	Remarks.
	At commencement of year.	Added during year.	Deducted during year.	At close of year		Plans under preparation.	Plans not under preparation			Deducted or required.	In progress fund of year.	Revised plans sanctioned during year.		
				Actual area.	Percentage of total forest area (as shown in column 10).		Required at present.	Not required at present.						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
NORTHERN CIRCLE														
North-Mandla	175			175	22			611	786					Includes 119 sq. miles of the khannat and forest rule rough scheme.
South-Mandla	244			443	38			718	1,161					
Jubbulpore-Narsinghpur	590			590	100				590					Please see remarks, given in Form No. 7. Due to time being neglected.
Damoh	793		11	1792	100				1792					
Saugor	749			749	100				749					
Hoshangabad	740			740	77		55	156	951					
Seoni	813			813	100				813					
Chhindwara	664			664	100				664					
Total	4,951		1	4,906	76		55	1,445	1,506					
SOUTHERN CIRCLE.														
Balghat	873	50 (a)		903	95		2	14 (b)	979			680		(1) New work. (2) Abandoned after the preparation of the S.W. Working Plan.
Bhamara	131			513	100				533					(c) Includes 15 sq. miles of B class Forest. (d) D class Forest.
Bilaspur	545			545	100				515					
North-Chanda	1,110			1,127	81			(d) 257	1,384	1,112				(e) Shonchi Range. (f) B class Forest. (g) Wainganga R. S.
South-Chanda	643			643	50	(e) 307		(f) 335	1,285		(g) 65			
Nagpur-Wardha	715			715	100				715					(h) Correction of areas since the Working Plans were sanctioned. (i) Land recently taken over from the Irrigation Department.
North-Raipur	515			515	100				515		515			
South-Raipur	963	(h) 5		968	97	(i) 22		(k) 3	993		968			
Total Southern Circle	5,914	95		6,009	86	329	2	609	6,949	1,112	1,568	680		
BERAR CIRCLE.														
Melghat	693	482		1,175	100				1,175			693		(a) Includes 19 sq. miles of column 2 which have been incorporated in the Working Plan for the whole Division.
Amaroti						223			223				4	
Buldana	430			430	100				430					
Yestmal	19			19	159	(a) 757		415	1,191		19		580	
Akola	323			323	100				323					(b) B class Forest to be deforested.
Nimar	1,686			1,686	100				1,686					
Betul	1,180			1,180	99			(b) 9	1,189					
Total Berar Circle	4,334	482		4,813	77	980		424	6,217		19	693	593	
GRAND TOTAL FOR CENTRAL PROVINCES AND BERAR.	1,05,934	577	1	15,807	219	1,309	57	2,518	19,073	1,112	1,567	873	593	

(1) No entries referring to revisions of sanctioned plans will be made in columns 2 to 9.

(2) Notes will be made in column 15 to explain whether entries in columns 3 and 4 refer to new work, to corrections of area or to abandonment of working plans.

(3) No entries will be made in column 4 regarding temporary suspensions pending revision.

(4) New areas included, or areas thrown out, during revisions will be shown in columns 3, 4 and 7, and not in columns 12 and 13.

(5) Remarks entered for the completion of working plans will be shown in the remarks column only.

FORM NO. 12.

FORM NO. 12.—Statement showing

New works undertaken during the year.															
Division	Buildings.					Roads and paths								Other works	
	Expenditure on				Total expenditure incurred	Cart loads		Bridle paths and feeder roads		Others		Total length of paths or roads	Total expenditure incurred	Expenditure in current	Total Expenditure on new works.
	Head-quarter houses.	Rest houses	Houses for subordinate establishment	Others		Length.	Cost	Length.	Cost	Length	Cost				
1	2 (a)	2 (a)	2 (c)	2 (a)	3	4 (a)	4 (b)	4 (c)	4 (d)	4 (e)	4 (f)	5	6	7	8
NORTHERN CIRCLE															
North-Mandla			173		473		(a) 303						100	124	837
South-Mandla	1,057	450	2,300		(b) 3,807	1	101	7	16	14	(h) 10	23	177	150	4,309
Jubbulpore-Narsinghpur						4	1,081					14	1,681	115	1,986
Damoh	981	410	1,791		3,181	56	17,749		213	115	10	1	11,992	1,945	16,811
Saugor			161		787	7	139			113	1	10	147		1,309
Hoshangabad	255	1,500	1,712	(e) 173	3,640	17	1,118	24	1,466	14	(f) 683	15	6,111	371	10,219
Seoni	162				162	11	1,013					1	1,013		1,275
Chhindwara	3,527		473		4,000	1	10						10	102	4,102
Total Northern Circle	6,044	2,300	7,516	173	16,033	109	19,611	14	1,715	10	1,061	197	22,195	3,170	41,662
SOUTHERN CIRCLE.															
Balaghat		15	1,067		1,082	10	4,746					10	1,140	104	6,512
Balaghat School														61	61
Bhandara			14		14	4	11					1	11	11	301
Bilaspur			200		200	1	510						410		710
North Chanda			740		790									341	1,641
South Chanda			60		60									71	671
Nagpur-Wardha			412		412	7	3,311	18	343	20	107	15	1,445	427	3,667
North Raipur			51		51									123	859
South Raipur			1,128		1,128	10	52					10	72	784	1,984
Total Southern Circle		15	4,712		4,727	37	7,660	28	1,044	39	183	700	4,150	1,487	16,493
BERAR CIRCLE.															
Meighat			2,409	92	2,501	10	2,032					10	1,023	205	4,729
Azraote	1,233		169		1,402										1,402
Buldana		811			811					1,125	517	1,235	517	320	1,645
Yeshmal			81	51	132	30	320			1,115	740	813	1,060	1,873	2,893
Akola			1,945		1,945									300	2,245
Nimmur			15	49	64	814	2,017					814	2,017	168	2,219
Betul			199		199	10,67	26,809	14,48	397	15,0	12	41,48	17,204	818	18,022
Total Berar Circle	2,233	811	4,695	391	7,040	31	21,765	14,48	397	17,36	1,260	6,55	23,421	3,815	33,470
TOTAL CENTRAL PROVINCES AND BERAR.	7,277	3,185	16,827	164	27,050	176	49,033	75,48	2,451	102,36	2,313	3,815	53,007	6,661	91,240

Note.—A sum of Rs. 45 which has been wrongly debited to buildings

Communications and Buildings during the year 1916-17

Repairs executed during the year												
Buildings					Roads and paths							
Expenditure on					Cart roads		Bridle-paths and feeder roads		Others		Total length of paths or roads.	
Head quarter houses.	Rest-houses.	Houses for subordinate establishment	Others	Total expenditure incurred	Length	Cost	Length	Cost	Length	Cost		
9 (a)	9 (b)	9 (c)	9 (d)	9 (e)	11 (a)	11 (b)	11 (c)	11 (d)	11 (e)	11 (f)	12	
Rs.	Rs.	Rs.	Rs.	Rs.	M. C.	Ru.	M. C.	Ru.	M. C.	Ru.	M. C.	
208	...	437	46	685	70	560	5	40	...	...	...	65
141	877	668	119	1,565	94	915	12	121	1	403	...	117
...	23	1,005	157	1,185	49	240	10	147	...	...	...	62
...	14	663	...	677	141	145	1	910	43	176	...	187
...	76	450	64	590	168	2,757	...	...	...	...	...	168
949	988	722	...	2,659	163	3,704	...	...	3	446	...	446
...	794	1,093	111	2,998	107	114	...	...	...	...	...	102
108	16	464	6	694	86	518	...	...	...	...	...	86
1,100	2,768	5,432	504	9,804	1,415	9,748	28	494	4	486	...	1,233
...	328	1,317	167	2,812	186	2,371	...	...	32	328	...	221
...
...	78	491	23	692	222	677	...	...	...	...	...	222
...	91	211	279	481	111	503	14	10	...	...	...	175
...	316	432	...	748	147	1,031	...	...	...	...	...	317
...	384	742	118	1,244	612	2,023	...	...	16	71	...	633
...	20	740	...	760	114	1,317	...	...	44	79	...	378
...	313	689	...	1,002	202	644	28	7	...	...	...	210
...	70	1,016	13	1,199	204	1,013	...	...	...	...	...	204
...	1,100	6,133	754	7,987	2,247	10,501	26	26	92	388	...	2,360
...	928	2,071	1,371	4,370	442	2,781	300	612	...	...	...	742
...	712	1,300	...	2,012	26	2,073	...	...	...	...	...	26
...	180	264	159	503	120	1,145	3	10	173	...	...	306
...	77	846	70	993	14	744	2	40	3	...	...	155
...	20	187	...	207	120	416	...	...	...	...	...	120
...	321	1,044	10	1,375	208	1,000	...	...	...	...	...	208
...	181	971	...	1,152	300	2,062	...	...	...	...	...	300
...	1,100	6,133	1,396	7,629	2,266	10,501	26	26	92	388	...	2,360
...	1,100	6,133	1,396	7,629	2,266	10,501	26	26	92	388	...	2,360

...Warren Division instead of to Military Grass operations has been excluded by this office.

Abstract.

SOUTHERN CIRCLE.

Roads.

Buildings.

New works
Old works

Rs.
Ru.

New works
Old works

Rs.
Ru.

1,100 6,133 1,396 7,629 2,266 10,501 26 26 92 388 2,360

Total expenditure incurred	Other works.	Total expenditure incurred	Remarks
	Total expenditure incurred.		
13	14	15	16
Rs.	Rs.	Rs.	
600	124	1,409	
1,136	177	3,218	(a) Cost of work done during 1915-16.
433	386	2,004	(b) Includes Rs. 32 for mala crossings.
1,086	352	2,115	(c) Includes Rs. 95 being pay of a mali.
1,253	111	2,460	(d) Includes Rs. 500 spent on repairs of 57 miles of District Council road on their behalf.
4,350	561	7,170	(e) Acquisition of two lands.
712	207	2,957	(f) Includes Rs. 757 for causeway.
558	1	1,153	(g) Includes Rs. 71, pay of a mali.
			(h) Includes Rs. 88 for mali.
10,128	1,979	22,486	* Alignment.
			‡ Causeways.
2,599	558	4,069	
...	270	270	
677	125	1,333	
588	80	1,148	
1,823	221	3,312	
2,194	594	4,995	
1,324	321	2,474	
655	495	2,168	
1,055	570	2,781	
10,915	3,234	23,450	
3,333	410	10,809	
5,073	251	8,888	
1,356	225	2,439	
752	123	1,833	
436	220	1,446	
1,026	253	4,965	
2,062	91	5,512	
14,938	1,543	33,693	
25,981	6,856	79,628	

Other Works.

New works
Old works

Total

Rs.

3,487

3,234

6,721

FORM NO. 12.-Statement showing

New works or le taken during the year														
D. P.	Pulling					Rope & path					Other works			Total expenditure or new work.
	L. p. l. r. o.					Rope & path					Other works			
	Head gaur o s c	W 1 f itor te tab el vert	W 2 f itor te tab el vert	W 3 f itor te tab el vert	Total expenditure	Rope & path	Bridge path and feet r ronds	Oth r	le t f	le t f	le t f	le t f		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
NORTH DISTRICT														
North N. S.					40									877
South N. S.	5	3			507	1	101			14	(1)		7	4902
Jebou pore Nat. h. n.						14	101					101	30	986
Damoor	8	10	11		186		174		1	10	0	10	3	0911
Sang			1				1			10		14		1,207
Hosh ugar	5	0	1	1	00		10	140	11	(1)		1	4	0209
Sang							11							1073
W. n. n. n.	5				00	1	1					0	3	1408
	0	11	7	10	1	700	10 011					1	1	100
SOUTH DISTRICT														
Madurai		1	10		07		1					1	101	11
Belur													1	64
Dharmar					10							1	1	101
Belur			00		30	1						10		10
North C.			20		0									141
South C.			0		000								371	10
Nagpur W. d. n.					1	0	1	2	11	3	4	1	14	1073
N. n. n. n.			1		1								11	080
South n. n.			10		100	10	1						1	1014
			1	1	1	0		14	1	0	00	1	14	1400
MADRAS DISTRICT														
Madurai			400	10										4,100
Amraoti	1	1			100									1,100
Saidara		1			111				1	1	1	1	1	1,111
Yestral			01	11	1	1	00			10	11	100	1,000	1,100
Arora					1,100									1,100
Funar				40	40	111	111			14	11	1	1	1,111
Belur				100	10	000	10 000	14 18	10	16 0	10	10 00	17,000	1,100
Total Madras	1	1	1	1	1,100	10 1	1,100	14 18	10	1,100	1,100	1,100	1,100	1,100
TOTAL CURRENT WORKS	1	1	1	1	1,100	10 1	1,100	14 18	10	1,100	1,100	1,100	1,100	1,100

Note.- A sum of Rs 45 which has been wrongly debited to buildings

Communications and Buildings during the year 1916-17

Expenditure during the year																	
Buildings					Roads and paths										Other works		
Expenditure on					Brilliant feel r r a l s										Others	Total expendi ture in curred	Remarks
Head quarters	Rest houses	Houses for subordi nate establi shment	Others	Un allotted	Local	Central	Provincial	State	Length	Cost	Total length of paths or roads	Local expendi ture in curred	Total expendi ture in curred				
9 (a)	9 (b)	9 (c)	9 (d)	9 (e)	10 (a)	10 (b)	10 (c)	10 (d)	10 (e)	10 (f)	11	12	13	14	15		
Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs		
22		41	41	13		50		40				60	600	124	1,409		
23	877	606	21	2	4	5	13	131	1	40	117	1,136	177	3,218	(a) Cost of work done during 1915-16		
	23	1,009	6	11	1	30	11	147			60	413	386	2,004	(b) Includes Rs. 31 for sala crossings		
	14	613			1	1	42	170			187	1,086	352	2,115	(c) Includes Rs. 56 being pay of a mahi		
	76	43	1	1	1	1					168	1,253	111	2,460	(d) Includes Rs. 500 spent on repairs of 57 miles of District Council road on their behalf.		
50	688	221				3			7	446	446	4,150	561	7,170	(e) Acquisition of two lands.		
	704	1,009	101	1	32	72					102	712	207	2,957	(f) Includes Rs. 757 for causeway.		
108	16	414	6	0	0	67					96	558	1	1,353	(g) Includes Rs. 71, pay of a mahi.		
															* Alignment		
100	2,788	5,152	23	13	1	1,138	1	404	4	486	1,333	10,128	1,979	22,486	† Causeways.		
	328	1,431	11	1	15	2,371			32	328	221	2,590	558	4,069			
	78	431	27	31	122	1					222	677	125	1,333			
	91	221	178	490	1	561	24	10			175	588	80	1,148			
	516	914		1,224	1	1					317	1,823	221	3,312			
	284	94	18	2,200	11	2,123			16	71	633	2,194	594	4,695			
	80	749		93	3	121			44	89	378	1,384	321	2,474			
70	953	687		1,118	2	945	52	7			210	665	485	2,168			
7	70	1,006	17	2,156	24	1,055					204	1,055	570	2,781			
	2,180	4,113	24	4,301	2,242	17,501	26	26	92	388	2,360	10,912	3,236	23,450			
107	938	2,061	1,311	1,006	449	2,721	300	612			742	3,333	410	10,809			
108	712	2,436		3,574	16	5,071					55	5,073	251	8,888			
109	180	360	150	810	170	2,340	30	10	113	203	306	1,356	225	2,439			
	71	825	56	958	14	744	1	40	3		155	78	752	123	1,893		
	20	327		710	110	475					120	436	280	1,446			
	135	1,344	20	2,716	708	1,936					508	2,026	205	4,065			
	124	975		1,150	309	2,069					309	2,069	91	3,512			
106	2,440	5,577	1,500	17,211	1,769	22,116	304	625	113	208	2,127	14,038	1,643	33,692			
107	2,354	20,697	2,061	30,791	1,142	32,782	448	1,145	209	1,074	5,780	35,931	6,856	79,622			

Major Waria Division instead of to Military Cross operations has been excluded by this office.

Abstract.

SOUTHERN CIRCLE.

Roads.		Buildings.		Other Works.	
New works	Rs.	New works	Rs.	New works	Rs.
Old works	14,995	Old works	4,787	Old works	1,234
Total	29,995	Total	11,088	Total	6,741

FORM NO 13—Statement showing register of

Forest Division	New cases of the year																	
	Cases pending from previous year			Injury to forest by fire			Unauthorized felling			On the road			Other offences			Total		
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
NORTHERN CIRCLE.																		
Vari Mandla	2	73			4	3	1	196				127		21		1	538	1
South-Mandla Jabalpur Nagpur	6	106	106		6	2	2	355	11	2	191	1	1			4	813	31
Tamoli	3	115	118		1	4	23	1	168	17	2	450		10			738	40
W. S.	111	49	60				9	7	205	56		481	1	2	3	1	86	47
Noahgarabad Seoni	2	2	4		1	1	1	79	2	15	291		5	1		1	171	3
Chhindwara	1	1198	128		1	9	11	187	1	28	353		2	2		31	646	17
Total Northern Circle	27	787	754		1	24	53	2,355	179	56	2,902		7	7	2	89	4,928	211
SOUTHERN CIRCLE.																		
Belaghat	109	102			6	4	1	277	56	5	704		1	57		4	736	60
Bhandara	1	1						137	4	2	77		1	6		3	340	27
Bilaspur	21	11			3	0		57			90		1				151	6
North Chanda	1	30	40				1	305	20	1	191		1	44		3	535	30
South Chanda	41	41						220	42		121		1	11		1	265	43
Nagpur Wardha	2	31	35		1	6		44		2	225		1	8		4	277	6
North-Rajpur		65	61		1	2		156		2	198		2	3		10	359	
South-Rajpur	0	9	21		5	5	4	225		0	270		2	21		20	538	5
Total Southern Circle	5	299	304		9	19	34	1,430	131	28	1,638		9	113		20	3,499	266
BENAR CIRCLE.																		
Malghat	3	15	15		11	3	1	72		1	61		1	37		4	181	5
Amraoti		58	61		2	5	1	230		2	564		2	58		4	554	8
Buldana	2	32	24				1	106										
Yectmal	231	231			10	2	3	405	88	3	512					7	648	2
Akola	79	37			4	2	2	186	10		1,186			24		8	1,313	15
Nimar	2	64	65		5	5	2	187	38		450			26		7	648	15
Betul	1						1	179	40		487			8		18	611	19
Total Benar Circle	5	457	465		34	22	13	1,309	230	24	3,140		2	10	407	3	49	4,950
GRAND TOTAL CENTRAL PROVINCES AND BENAR	30	1,483	1,523		22	79	209	5,104	460	102	7,424		9	84	629	6	188	13,574

N B—A means pending cases
B means cases disposed of under
C means

Breaches of Forest Rules during the year 1916-17

Total cases		Disposed of during the year															Case pending at close of year			Remarks
		A					B					Total								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15					16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
1	611	0	1																	
2	319	24	15																	
3	612																			
4	167	40	1 214																	
5	815	67	2																	
6	771	5	1 157																	
7	598																			
8	240	1	1 12																	
9	5 555	101	1 212																	
10	808	60	10																	
11	541	27	971																	
12	169	8	278																	
13	324	24	707																	
14	607	43	1 11																	
15	310	6	183																	
16	422																			
17	541		168																	
18	3 795	106	4,016																	
19	126	3	108																	
20	612	6	824																	
21	495	4	108																	
22	6,143	15	4,110																	
23	583	15	798																	
24	778	20	773																	
25	382	28	593																	
26	5,400	157	5,601																	
27	12,757	584	13,300																	

Report of the Indian Forest Act, 1872.

ANNUAL FORM NO. 14—[PRESCRIBED].—Area of Forest Tracts protected from Fire during the year 1916-17

Division	Forest tracts	Year in which protection commenced	Area protected during 1915-16	Area attempted to be protected	Failure	Area actually protected	Cost	Remarks
1	2	3	4	5	6	7	8	9
			Acres	Acres	Acres	Acres	R	
NORTHERN CIRCLE								
<i>States at all times protected area.</i>								
North-Mandla.	Mandla Range		16,507	18,231	350	17,881	384	1 Fire
	Sariastal		787	787		787	77	
	Dianwah		48,359	48,404	15	48,389	1,301	1 Fire
	Total for Division		65,653	67,422	365	66,057	1,762	Failure 54 per cent.
South-Mandla	Jajmandal Range		35,982	35,984	66	35,918	64	1 Fire
	Banjar		62,337	62,510	104	62,406	1,211	
	Motinala		81,054	86,114	276	80,738	1,612	
	Karanja		68,629	66,629	105	68,524	1,015	
	Total for Division		248,002	251,239	551	245,686	3,902	Failure 21 per cent.
Jubbulpore-Narsinghpur.	Muiwara Range		37,373	38,865		38,865	974	
	Sihora		9,811	10,235	1,104	9,131	492	1 Fire
	Jubbulpore		30,773	3,6858	21	30,757	803	
	Barji		4,703	4,770	12	4,758	270	
	Bachar		26,281	26,369	450	25,919	499	
	Richai		0,175	6,248	327	5,921	180	
	Khairi		40,495	40,513		40,513	346	
	Total for Division		161,611	163,858	1,944	161,914	3,650	Failure 12 per cent.
Damoh	Fatehpore Range		98,315	121,684	1,023	120,661	1,943	1 Fire
	Damoh		93,373	106,586	2,996	103,590	1,883	9 "
	Tendukhera		152,862	177,828	9,452	168,376	2,412	21 "
	Singrapur		77,261	100,443	2,820	97,623	1,540	9 "
	Total for Division		421,811	506,541	16,291	490,450	7,778	Failure 52 per cent.
Saugor	Kaurai Range		15,514	13,465	1,454	12,011	442	3 Fires.
	Saugor		33,352	20,336	1,648	18,688	711	4 "
	Banda		26,350	17,413	233	17,180	464	1 "
	Rehli		53,893	17,311	302	17,009	304	1 "
	Deori		28,026	21,007	106	20,901	345	1 "
	Total for Division		157,335	89,532	3,743	85,789	2,466	Failure 42 per cent.
Moshangabad.	Bori Range		167,475	170,638		170,638	1,575	
	Sohagpur		59,646	59,646		59,646	1,840	
	Moshangabad		53,881	53,834	4	53,830	1,313	1 Fire.
	Seoni		81,600	81,812	60	81,752	1,180	
	Rehatgaon		94,843	94,843		94,843	1,040	
	Magardha		85,455	85,287		85,287	550	
	Total for Division		543,790	547,060	64	545,996	7,498	Failure 102 per cent.

ANNUAL FORM NO 14 — [PRESCRIBED] — *Area of Forest Tracts protected from Fire during the year 1916-17 — (Contd.)*[illegible]

ANNUAL FORM NO. 14 —[PRESCRIBED.]—Area of Forest Tracts protected from Fire during the year 1916-17 —(Contd.)

Division.	Forest tracts	Year in which protection commenced.	Area protected during 1915-16	Area attempted to be protected.	Failures.	Area actually protected.	Cost.	Remarks
1	2	3	4	5	6	7	8	9
	SOUTHERN CIRCLE (Contd) <i>Systematically fire-protected areas —(Contd)</i>		Acre.	Acres.	Acres.	Acres.	Rs.	
South-Chanda.	Alapilli	1873	72,946	72,946	...	72,946	2,187	
	Ghot	1857	3,182	3,182	78	3,101	19	1 Fire.
	Markhanda	1891	76,844	77,565	...	77,565	1,156	
	Sironcha	(a) 897 (b) 1907	97,749	97,901	...	97,901	680	(a) Partial protection (b) Protection
	Dhaba	1889	8,260	8,260	..	8,260	306	
	Total	...	258,981	259,854	78	259,776	4,348	Failure 03 per cent
Nagpur-Wardha.	East Pench	1875	103,927	104,372	...	104,372	1,210	
	West Pench	1878	38,295	39,606	..	39,606	765	
	Kondhali	1894	37,670	38,864	1,312	37,552	668	2 Fires.
	Umrer	1895	38,549	40,740	661	40,079	752	3 "
	Hingni	1894	42,280	42,280	...	42,280	870	
	Arvi	1880	50,375	50,536	348	50,188	707	2 "
	Total	...	311,006	316,398	2,321	314,077	4,973	Failure 73 per cent
North-Raipur.	Loan	1889	50,547	54,146	18	54,128	1,452	1 Fire.
	Mahasamund	1889	31,076	31,419	50	31,369	1,062	2 "
	Sonakhan	1870	66,235	67,664	100	67,564	1,002	1 "
	Bilari Ghugwa	1900	1,606	1,606	...	1,606	90	
	Total	...	149,464	154,835	168	154,667	3,606	Failure 11 per cent.
South-Raipur...	Dhamtari	1896	62,475	54,114	27	54,147	1,012	1 Fire.
	Singpur	1896	95,405	81,993	2,459	79,534	1,054	5 "
	Balod	1896	69,957	67,859	599	67,260	753	1 "
	North-Sihawa	1880	105,874	113,275	1,901	111,374	800	2 "
	South-Sihawa	1903	132,053	131,017	...	131,017	1,278	
	Total	...	465,764	448,318	4,986	443,332	4,897	Failure 11 per cent.
	TOTAL SOUTHERN CIRCLE.	...	2,535,519	2,460,204	13,583	2,446,621	37,615	Protected 99.45 per cent.
BERAR CIRCLE.	Sembadoh Range	...	77,661	77,696	...	77,696		
	Chaurakund	...	63,877	63,877	...	63,877		
	Butrum	1872	81,992	81,992	8	81,984		2 Fires.
	Khandu	...	89,921	89,921	2	89,919		1 Fire.
	Gugamal	1877	151,961	151,961	...	151,961		
	Chikalda	1890	34,215	34,242	...	34,242		
	Tapti Reserve	1911	26,862	26,862	...	26,862	6,822	
	Chitthri	...	7,504	...	...	...
	Chikli	...	8,335	8,335	...	8,335		*Area early burnt.
	Bod	1913	2,900	2,900	...	2,900		
	Morha	...	18,586	18,586	3	18,583		1 Fire.
	Khirpani	...	32,191	...	...	...		1 Fire.
	Jaonodeo Reserve	1914	10,001	11,003	...	11,003		*Area early burnt.
	Total	...	607,202	607,582	43	607,539		Percentage of fires 0.007

ANNUAL FORM NO 14 - [PRESCRIBED].—Area of Forest Tracts protected from Fire during the year 1916-17 —(Concl'd.)

Division.	Forest tracts.	Year in which protection commenced	Area protected during 1915-16	Area attempted to be protected	Failures.	Area actually protected.	Cost.	Remarks
1	2	3	4	5	6	7	8	9
Amraoti	BERAR CIRCLE —(Concl'd)—		Acres	Acres.	Acres	Acres	Rs.	
	Amraoti Range	1881	17,734	18,352	256	18,126	378	3 Fires.
	Morsi "	1880	19,461	19,511	..	19,511	301	
	Total		37,195	37,863	256	37,637	679	Percentage of success 99. + Rs 6 spent on putting out burning unprotected forests.
Baldana	Jalga Range	1881	13,292	34,492	375	34,117	604	1 Fire.
	Chilhi "	1880	68,764	68,764	..	68,764	515	
	Purna "	1880	21,553	21,532	52	21,480	99	1 Fire.
	Mohler "	1881	28,045	28,053	150	28,803	136	2 Fires.
	Total	..	132,554	153,741	577	153,164	1,324	Percentage of success 99.
Yeshmal	Yeshmal Range	..	45,854	37,959	200	36,759	..	1 Fire 12,130 acres early burnt.
	Darha "	1887	37,651	41,045	..	41,045	1	300 " " "
	Kelapur "	1881	59,112	57,747	300	56,947	..	1 Fire 1,900 " " "
	Wan "	1893	24,589	26,661	81	26,580	50	2 Fires 1,200 " " "
	Punad "	1890	54,178	57,182	710	56,472	110	2 Fires.
	Kinwat "	1881	114,955	112,205	..	112,205	89	3,000 acres early burnt.
	Total	..	371,309	331,309	1,291	330,098	250	Percentage of success 99.
Bhopal	Pangra Range	1882	44,888	44,888	25	44,863	640	4 Fires
	Merna "	1891	21,831	21,831	120	21,711	224	2 "
	Balapur "	1891	34,034	34,924	100	34,824	281	2 "
	Muchzapur "	1902	25	25	25	..	10	1 Fire.
	Total	..	101,668	101,668	270	101,398	1,155	Percentage of success 99.
Bhind	Khandwa Range	1877	42,430	42,897	890	42,007	650	1 Fire.
	Panasa "	1875	93,438	93,698	1	93,697	1,156	1 "
	Chandigarh "	1878	80,567	88,149	..	88,149	1,235	
	Singoli "	1893	43,509	44,170	140	44,030	922	2 Fires.
	Kalibhit "	1874	181,307	15,446	..	66,446	1,031	Area early burnt (174,861 acres)
	Pipli "	1890	50,121	56,415	15,177	41,238	899	3 Fires.
	Chandni "	1893	57,925	24,455	671	23,784	354	2 " area early burnt (25,479 acres)
	Burhanpur "	1893	9,229	..	..	..	122	Area " " (5,429 ")
	Total	..	558,577	416,230	16,882	399,348	6,367	Percentage of success 99.
Bilaspur	Raipur Range	1886	57,790	53,840	7	53,813	615	1 Fire.
	Bhawanagarh "	..	76,857	79,902	10	79,892	762	2 "
	Sionagarh "	1875	79,483	59,396	410	68,986	956	3 Fires. Area early burnt (10,389 acres)
	Tapti "	..	111,983	77,779	..	77,779	1,071	Area early burnt (44,706)
	Dabka "	1897	20,370	Early burnt	..	..	..	" " "
	Sawaimendha "	1898	4,151	..	..	..	62	" " "
	Asir "	1901	..	83,480	..	83,480	677	
	Total	..	367,663	363,897	492	359,470	4,153	Percentage of success 99.
	TOTAL BERAR CIRCLE	..	1,577,609	1,679,471	19,716	1,599,685	20,485	Percentage of success 99.
	TOTAL CENTRAL PROVINCES AND BERAR	..	5,079,000	5,011,171	68,997	5,000,174	92,522	

(C) Fires beginning inside the

Division & Circle	(A) Fires caused by accident or through carelessness in burning fire-lines.		(B) Fires entering the forests by crossing exterior fire-traces.		Owing to carelessness or accident							
					By workmen employed in the forests, by purchasers of forest-produce and by labourers.		By villagers, travellers, etc., passing through the forests.		By Railway engines.		By lightning or by fire balloons.	
	No of fires.	Area burnt, in acres.	No of fires.	Area burnt, in acres.	No of fires.	Area burnt, in acres.	No of fires.	Area burnt, in acres.	No of fires.	Area burnt, in acres.	No of fires.	Area burnt, in acres.
	2	3	4	5	6	7	8	9	10	11	12	13
NORTHERN CIRCLE.												
North-Mandla	...	...	1	350	...	...	1	15	...	...	...	...
South-Mandla	2	65	2	216	...	...	5	209	...	...	1	5
Jubbulpore-Narsinhpur	3	741	...	...	...	...	...	...	...	...	...	...
Damoh	18	3,830	7	4,911	...	...	2	542	...	...	...	...
Saugor	2	248	1	106	...	...	...	...	1	276	...	...
Hoshangabad	1	60	...	...	...	...	...	...	...	...	...	...
Seoni	...	...	...	...	...	...	...	...	...	...	...	...
Chhindwara	...	...	...	...	...	...	...	...	1	16	...	...
Total Northern Circle	26	4,944	11	5,583	...	...	8	703	2	292	1	2
SOUTHERN CIRCLE.												
Balaghat	...	...	...	...	1	260	...	...	...	...	...	...
Bhandara	...	...	1	645	...	...	2	180	...	...	...	...
Bilaspur	...	...	...	...	1	23	...	...	...	...	...	...
North-Chanda	1	19	...	...	...	...	...	...	1	205	...	...
South-Chanda	...	...	...	...	...	...	1	78	...	...	...	...
Nagpur-Wardha	...	...	2	1,295	...	...	4	430	...	...	...	...
North-Raipur	1	18	1	25	...	...	...	...	...	...	...	...
South-Raipur	1	901	...	...	...	...	2	626	...	...	...	...
Total Southern Circle	3	938	4	1,965	2	283	9	1,314	1	925	...	...
BERAR CIRCLE.												
Meigbat	1	7	...	...	...	...	3	6	...	...	...	...
Amraoti	...	...	...	...	...	...	...	...	...	...	...	...
Buldana	...	...	1	375	...	...	...	...	...	...	...	...
Yestmal	...	...	2	950	...	...	1	60	...	...	1	50
Akrol	...	...	...	...	1	2	3	207	...	...	...	...
Nimar	1	1	1	145	...	...	5	1,286	...	...	...	...
Betul	4	420	...	...	...	...	...	...	1	7	...	...
Total Berar Circle	6	428	4	1,470	1	2	12	1,559	1	7	2	14,800
TOTAL CENTRAL PROVINCES AND BERAR.	35	6,310	19	9,018	3	285	29	3,405	4	2,224	2	14,804

Forest Fires, 1916-17.

Reserve or fire-traced area.

By intention of burning											
In order to obtain new grass.		In order to turn out game or to clear land.		Maliciously fired		Total.		Causes unknown.		Total (A), (B) and (C).	
No. of fires.	Area burnt, in acres.	No. of fires.	Area burnt, in acres.	No. of fires.	Area burnt, in acres.	No. of fires.	Area burnt, in acres.	No. of fires.	Area burnt, in acres.	No. of fires.	Area burnt, in acres.
14	15	16	17	18	19	20	21	22	23	24	25
...	1	15	...	...	2	365
...	6	211	2	61	12	553
...	15	1	15	4	1,188	8	1,944
...	185	3	1,027	18	6,523	46	16,291
...	1	276	8	3,113	12	3,743
...	1	4	2	64
...	2	847	2	847
...	1	16	9	1,785	10	1,801
...	300	13	1,560	44	13,521	94	25,608
...	13	2	273	4	418	6	691
...	2	180	2	43	5	868
...	1	23	6	3,504	7	3,527
...	1	925	...	...	2	944
...	1	78	...	...	1	78
...	4	430	1	596	7	2,321
...	...	1	100	...	...	1	100	1	25	4	163
...	...	1	251	1	1,650	4	2,527	4	1,558	9	4,086
...	...	2	351	2	1,663	16	4,536	17	6,144	41	13,583
...	3	6	...	...	4	13
...	3	256	3	256
...	1	32	2	150	4	577
...	1	60	3	281	6	1,291
...	4	209	5	61	9	270
...	6	16,066	1	670	9	16,882
...	1	7	...	...	5	427
...	16	16,400	14	1,418	40	19,716
...	...	3	351	4	2,161	45	22,406	75	21,083	175	58,907

FORM NO. 16.—Area closed and open to grazing during the year 1916-17.

Division.	Area in square miles.					
	Closed to all animals.		Open to grazing.			
			Of all animals		Of all animals except browsers (camels, sheep and goats.)	
	Whole year.	Part of year.	Whole year	Part of year.	Whole year.	Part of year
1	2	3	4	5	6	7
NORTHERN CIRCLE.						
	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.	Sq. miles.
North-Mandla	24	...	611	...	151	...
South-Mandla	257	...	904	...	...	...
Jubbulpore-Narsinghpur	77	2	2	...	516	...
Damoh	69	...	723	...	...	...
Saugor	162	...	539	...	48	...
Hoshangabad	145	...	506	...	...	...
Seoni	107	...	...	...	706	...
Chhindwara	105	...	...	...	559	...
Total Northern Circle	939	2	3,585	...	1,980	...
SOUTHERN CIRCLE.						
<i>A Class.</i>						
Balaghat	243	...	63	...	673	...
Bhandara	162	...	...	...	362	...
Bilaspur	66	...	...	...	479	...
North-Chanda	379	...	42	...	691	...
South-Chanda	177	...	24	...	759	...
Nagpur-Wardha	214	...	...	...	501	...
North-Raipur	211	...	304	...	...	...
South-Raipur	155	276	...	...	562	...
<i>B Class.</i>						
Bhandara	...	...	...	...	9	...
North-Chanda	...	...	272	...	...	...
South-Chanda	...	...	335	...	...	...
Total Southern Circle	1,597	276	1,040	...	4,036	...
BERAR CIRCLE.						
STATE FORESTS, CLASS A:						
Melghat	205	...	338	...	632	...
Amraoti	12	26	...	...	39	...
Buldana	37	4	...	...	210	...
Yotmal	24	86	...	...	597	...
Akola	35	17	...	...	145	...
Total	313	133	338	...	1,533	...
STATE FORESTS, CLASS C.						
Amraoti	...	...	146	...	...	...
Buldana	...	...	179	...	...	...
Yotmal	...	...	574	...	...	...
Akola	...	...	126	...	...	...
Total	...	...	1,025	...	...	...
Total for Berar Divisions	313	133	1,363	...	1,533	...
<i>Class A.</i>						
Nimar	171	...	...	...	1,515	...
Betul	86	...	...	...	1,094	...
Total	257	...	...	...	2,609	...
<i>Class B-I.</i>						
Betul	...	...	9	...	...	...
Total for Nimar and Betul	257	...	9	...	2,609	...
GRAND TOTAL						
Total Central Provinces and Berar	3,106	411	5,997	...	4,142	...

FORM NO. 17

FORM NO. 17.—*Return of grazing in the*

Division.	Grazing on payment. Number of animals												
	At full rates.						At privileged rates (including ordinary rates)						
	Buffaloes.	Cows and bullocks	Goats and sheep.	Ca-mels.	Other ani-mals.	Fees received.	Buffaloes.	Cows and bullocks.	Goats and sheep	Ca-mels.	Other ani-mals.	Fees received.	
												Actual.	Value at full rates.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
NORTHERN CIRCLE.						Rs.						Rs.	Rs.
North Mandla ...	12,174	25,465	2,727	...	200	26,066	8,365	83,617	1,146	...	...	14,662	50,388
South Mandla ...	11,496	30,344	1,879	...	168	27,154	6,932	74,357	742	...	...	12,843	44,249
Jubbulpore-Narsinghpur ...	3,776	12,204	544	...	543	14,186	5,045	68,201	.	...	...	14,575	54,558
Damoh ...	20,685	31,346	19,694	..	17	44,342	8,750	111,886	...	...	...	24,640	78,679
Saugor ...	21,817	29,885	6,572	...	54	41,691	7,881	109,172	...	...	...	22,137	76,173
Hoshangabad ..	3,333	10,462	1,333	...	105	13,507	1,222	40,297	11	...	...	7,127	27,632
Seoni ..	15,069	37,131	...	...	22	38,554	7,395	117,869	...	...	..	27,595	82,118
Chhindwara ...	6,855	28,312	576	.	178	42,344	2,826	92,670	...	...	...	22,841	98,322
Total ...	95,205	205,349	33,325	...	1,287	2,47,844	48,416	698,069	1,899	...	...	1,46,330	5,12,119
NOTE.—Annual Transit License ...													
Monthly do ...													
SOUTHERN CIRCLE.													
Balaghat ...	5,031	21,330	618	...	218	23,878	2,672	49,613	...	...	...	9,917	21,211
Rhandara ..	1,068	4,149	...	...	...	5,285	2,577	49,818	...	...	...	10,370	54,071
Bilaspur ...	979	2,200	21	...	37	2,246	2,032	17,123	3	...	...	3,888	18,836
North Chanda ...	5,678	19,768	49,717	...	...	49,884	8,767	17,604	...	...	...	26,990	116,381
South Chanda ...	5,966	11,222	35,661	...	...	22,367	5,960	65,899	...	...	...	14,046	62,592
Nagpur-Wardha ...	6,002	15,418	...	...	...	26,385	464	67,479	...	...	...	14,207	68,407
North Raipur ...	3,774	12,504	...	...	...	16,286	3,792	28,969	27	...	6	5,980	18,194
South Raipur ..	1,722	11,158	...	...	2	7,302	5,284	37,389	...	...	...	11,340	23,911
Total ...	29,263	97,742	79,017	...	257	1,28,397	17,458	471,294	36	...	6	96,721	4,14,401

State Forests during the yrs 1916-17

[illegible]

FORM NO. 17.—Return of Grazing in the

Divis on.	Grazing on payment Number of animals												
	At full rates						At privileged rate (including ordinary rates)						
	Buffaloes	Cows and bullocks	Goats and sheep	Camels	Other animals	Fees received	Bullocks	Cows and bullocks	Goats and sheep	Camels	Other animals	Fees received	
												Actual	Value at full rates
1	2	3	4	5	6	7	8	9	10	11	12	13	14
BERAR CIRCLE													
						Rs.						Rs.	Rs.
STATE FORESTS,													
Melghat	1,747	15,137	889	.	9	17,919	1,946	9,268	1,582		366	6,048	12,691
Amraoti	891	16,381	...			27,494		...	...	...	...		...
Buldana	1,599	54,863	...	.	17	46,631	...	...	.				.
Yeshmal	4,213	70,017	...	...	...	72,708	...	51,416	.			34,188	53,605
Akola	579	57,831				24,921		.	...	.	...	.	...
Total	9,029	214,229	889	..	26	1,89,673	1,946	60,714	1,582		266	40,236	66,296
STATE FORESTS													
Amraoti	21,924	37,952	59,934	13	373	48,891	.	41,364	.	.	.	10,026	20,682
Buldana	16,649	28,647	97,285	2	285	42,898	.	36,167	...	...		6,781	18,084
Yeshmal	67,068	149,853	140,377	43	1,483	1,46,115		104,602	...	...		19,612	52,302
Akola	15,855	61,112	37,245	...	161	49,098		59,120	...	...	...	11,035	29,560
Total	121,516	277,564	334,841	58	2,302	2,87,002	.	241,253			...	47,504	1,21,285
Total excluding Nimar and Betul	130,545	491,793	335,730	58	2,328	4,76,675	1,946	301,967	1,582	...	266	87,740	1,46,924
STATE FORESTS,													
Nimar	14,683	23,715			46	53,717	11,678	96,055	...	...	3	31,214	1,19,414
Betul	11,042	30,206	...		71	42,242	2,510	64,829	...	...	85	10,481	52,451
Total	25,725	53,921	.	.	117	95,959	14,188	160,884	...	.	88	41,695	1,71,865
STATE FORESTS,													
Betul	...	..	202	..	.	38	...	..	87	..	.	11	16
Total	...	.	202	...		38	...		87	...		11	6
Total Nimar and Betul	25,725	53,921	202	..	117	95,997	14,188	160,884	87	...	88	41,706	1,71,881
Grand Total	156,270	545,714	335,932	58	2,445	5,78,672	16,134	462,851	1,669	...	354	1,29,446	3,58,805
TOTAL CENTRAL PROVINCES AND BERAR.	220,738	848,805	448,274	58	3,989	9,48,913	96,008	1,632,714	3,868	...	362	3,72,511	1,28,532

NOTE.—The following cattle

Transit cattle
Nomadic sheep and goats
Fees recovered for grazing of buffaloes
in Ryotwari waste Melghat, Appendix I, paragraph 26, Working Plan.
Surtax

State Forests Bureau, March 1917 - (Contd.)

[illegible]

Amount.
Rs.
7.845
7.378
64.50

FORM NO. 17.—Return of Grazing in the

Division.	Grazing on payment						Number of animals						
	At full rates						At privileged rates (including ordinary rates)						
	Buffaloes	Cows and bullocks	Goats and heep	Camels	Other animals	Fees received	Bullocks	Cows and buffaloes	Goats and heep	Camels	Other animals	Fees received	
												Actual	Value at full rates
1	2	3	4	5	6	7	8	9	10	11	12	13	14
BERAR CIRCLE						Rs.						Rs.	Rs.
												STATE FORESTS,	
Melghat	1,747	15,137	889	.	9	17,919	1,946	9,268	1,582		266	6,048	12,691
Amraoti	891	16,381	...	.		27,494		...	...	...	...		...
Buldana	1,599	54,863	...	.	17	46,631	.	...	...	...	...		.
Yeotmal	4,213	70,017	...	...	...	72,708	...	51,446	.	.	...	34,188	53,605
Akola	579	57,831				24,921		.	.	.	...		...
Total	9,029	214,220	889	..	26	1,89,673	1,946	60,714	1,582	.	266	40,237	66,296
												STATE FORESTS	
Amraoti	21,924	37,952	59,934	13	373	48,891	.	41,361	..	.	...	10,026	20,682
Buldana	16,649	28,647	97,285	2	285	42,898	.	36,167	...	...	...	6,781	18,084
Yeotmal	67,088	149,853	140,377	43	1,493	1,46,115		104,602	.	...	...	19,612	52,302
Akola	15,855	61,112	37,245	...	161	49,098		59,120		...	...	11,085	29,560
Total	121,516	277,564	334,841	58	2,302	2,87,002	.	241,251			...	47,504	1,23,288
Total excluding Nimar and Betul	130,545	491,793	335,730	58	2,328	4,76,675	1,946	301,967	1,582	..	266	87,740	1,46,921
												STATE FORESTS,	
Nimar	14,683	23,715			46	53,717	11,678	96,055	..	.	3	31,214	1,19,414
Betul	11,042	30,206	...		71	42,242	2,510	64,229	..	.	85	10,481	52,451
Total	25,725	53,921	...	.	117	95,959	14,188	160,284	.	.	88	41,695	1,71,865
												STATE FORESTS,	
Betul	...	...	202	...	..	38	...	...	87	.		11	16
Total	...	.	202	...		38	...	.	87	...		11	6
Total Nimar and Betul	25,725	53,921	202	...	117	95,997	14,188	160,284	87	...	88	41,706	1,71,881
Grand Total	156,270	545,714	335,932	58	2,445	5,72,672	16,134	462,251	1,669	..	354	1,29,446	3,58,805
TOTAL CENTRAL PROVINCES AND BERAR.	280,738	848,805	448,274	58	3,989	9,48,913	96,008	1,632,714	3,868	...	362	3,72,511	11,85,328

NOTE.—The following cattle

Transit cattle
Nomadic sheep and goats
Fees recovered for grazing of buffaloes in Ryotwari waste Melghat, Appendix I, paragraph 26, Working Plan.
Sur-tax

State Forests of the Province of Ontario (continued)

Animals										Grand Total or value at full rates
Animals of Government, or otherwise than under Settlement										
Deer	Cow and bullock	Cattle	Swine	Goats and sheep	Cattle	Other animals	Value of fees at full rates.	Total value of fees at full rates.		
23	24	25	26	27	28					
							Rs.	Rs.	Rs.	
CLASS A										

Excluded (—)
No. Amount.
Rs.
7,849
7,374
3,139

Rs.
20,134

FORM

Division.

I

Damoh

Saugor

Seoni

Saugor

Saugor

Seoni

Balaghat

North-Chanda

South-Kalpur

Nagpur-Wardha

NO. 18.—[PRESCRIBED]—*Artificial reproduction during the Forest year 1916-17*

Kind of plantation,	Area in acres				Expenditure during the year		Total expenditure from commencement		Revenue during the year	Total revenue from date of creation of plantation	Remarks.
	On 1st July 1916	Added during the year	Excluded during the year	Area on 1st July 1917	Creation	Up-keep.	Creation	Up-keep.			
2	3	4	5	6	7	8	9	10	11	12	13
NORTHERN CIRCLE											
REGULAR PLANTATIONS.											
Digging and sowing bamboos in certain blocks.	28	.	.	28	15	5	58	46	...	...
Bamboo plantations, maintenance and watering nursery and digging pits for plantation.	805	.	.	103	.	37	2,084	100	...	...
Teak	362	...	...	362	...	...	227	191	360	620	
Sandal plantations	3	...	...	3	...	...	...	...	...	...
OTHER FORMS OF ARTIFICIAL REPRODUCTION.											
Weeding Anjan plantation in Mohli block.	90	...	...	90	.	...	81	...	...	...	These entries were wrongly shown under "Regular plantations" in 1915-16.
Watering and fencing bamboo seedlings in Mondra and Jalandhar Felling Series	1	...	...	1	...	...	17	86	...	...
Experimental bamboo plantings in Jalandhar felling series.	30	.	...	30	...	...	14	...	...	...	This entry was wrongly shown under "Regular plantations" in 1915-16.
Thinning in existing teak plantation	...	.	...	...	.	20	...	30	...	...	Columns 3-6 cannot be filled in as the operations are not in particular areas.
Filling up gaps in existing teak plantation.	.	...	...	...	.	1	...	2	...	...
Fencing compound of teak plantation	.	.	...	...	...	...	...	15	...	...
Sowing seeds of bamboos	...	...	...	...	...	...	...	5	...	...
Total Northern Circle	617	.	...	617	15	63	2,482	791	160	620	
SOUTHERN CIRCLE.											
REGULAR.											
Sowings of Chir Pine	10	.	...	10	...	52	19	143	...	...	Rs. 48 were also spent towards the cost and carriage of the seed during the year.
Do. of Pinus Khasyan	...	6	...	6	27	...	27	...	...	...
Do. of Sal	.	10	...	10	29	...	20	...	...	...
Sandal plantation	156	...	...	156	...	...	...	39	...	...
Bamboo plantation	7	.	...	7	31	27	72	73	...	...
Teak plantation	23	...	...	23	12	5	59	5	...	...
Total Regular Plantations	196	16	...	212	99	114	205	260	...	...
Other forms of Artificial Reproduction not included in Sub-section (a)											
Sowings of sandal	106	38	...	37	34	...	24	...	...	...	(c) included under sowings of teak and bamboo in next year's form.
Do. of teak, etc., and bamboos	154	116	...	270	219	24	2,014	271	...	...
Total other forms of Artificial reproduction not included in Sub-section (a)	106	154	...	307	243	28	2,038	275	...	...
Total Southern Circle	302	167	...	513	349	142	2,544	535	...	...

under sowings, seedlings, thinning, filling up blocks, etc. Cultural operations are shown in the memorandum appended to Chapter No. 18.

[illegible]

FORM NO. 19.—[PRESCRIBED].—Outturn in (thousands of cubic feet, solid) of

Division	Timber in the rough, Logs					Timber in the rough, Poles					Sawn or square timber,					
	Gov- ern- ment.	Pur- chasers.	Free Grantees.	Right- holders.	Total	Gov- ern- ment.	Pur- chasers.	Free Grantees.	Right holders.	Total.	Gov- ern- ment.	Pur- chasers.	Free Grantees.	Right- holders.	Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.
NORTHERN CIRCLE.																
North-Mardia	27	550	25	..	602	..	..	..	..	..	..
South-Mardia	..	1	13	..	14	8	206	11	..	225	1	52	..	..	..	53
Jubbulpore-Nawairghpur	..	3	79	1	83	10	105	6	..	181	..	..	..	..	..	..
Damoh	8	214	..	..	222	..	..	..	..	..	..
Sauger	..	2	..	..	2	63	144	2	..	209	..	..	..	..	..	..
Hoshangabad	..	1	47	..	48	96	82	5	..	183	..	147	..	..	..	147
Seoni	..	24	52	..	76	13	44	2	..	61	..	..	..	..	..	..
Chhindwara	..	32	..	1	33	23	147	3	..	173	..	..	..	..	..	..
Total	63	191	2	..	256	250	1,612	54	..	1,916	1	199	..	..	..	200
SOUTHERN CIRCLE.																
Balaghat	72	..	72	3	147	24	..	164	1	95	..	..	..	97
Bhandara	49	..	49	6	752	2	..	760	..	..	..	..	..	..
Bilaspur	..	2	123	..	125	2	168	3	..	173	..	8	..	..	..	8
North-Chanda	..	18	30	..	48	38	644	2	..	684	..	..	..	..	..	..
South-Chanda	..	80	289	..	319	27	138	20	..	175	2	1	..	..	..	5
Nagpur-Wardha	..	2	..	1	3	2	295	5	..	302	..	..	..	..	..	..
North-Nalpur	..	22	28	6	56	20	163	12	..	194	..	..	..	..	..	..
South-Nalpur	..	35	264	..	399	11	629	4	..	644	..	26	..	..	..	26
Total	A Class		..	..	..	..	..	..	..	..	..	..	..	..	..	..
	B Class		..	..	..	..	..	..	..	..	..	..	..	..	..	..
GRAND TOTAL	169	605	7	..	1,081	98	2,967	60	..	3,126	3	225	..	..	..	228

Charcoal should be shown by its equivalent in fuel, the quantity in the "Remarks" column of this form it should be shown with the figures entered in it.

Timber and Fuel during the year 1916-17 and Agency of Exploitation.

[illegible]

* If wood consumed in producing it being entered in cubic feet solid.

which are only estimates, it being also noted in the latter case how the figures have been arrived at.

FORM NO. 19.—[PRESCRIBED].—*Outturn (thousands of cubic feet, solid)*

Division	Timber in the rough Logs.					Timber in the rough, Poles.					Sawn or square timber.				
	Government	Purchasers	Free Grantees	Right-holders	Total	Government	Purchasers	Free Grantees	Right-holders	Total	Government	Purchasers	Free Grantees	Right-holders	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BERAR CIRCLE.															
	Thousands of C. ft.	Thousands of C. ft.	Thousands of C. ft.	Thousands of C. ft.	Thousands of C. ft.	Thousands of C. ft.	Thousands of C. ft.	Thousands of C. ft.	Thousands of C. ft.	Thousands of C. ft.	Thousands of C. ft.	Thousands of C. ft.	Thousands of C. ft.	Thousands of C. ft.	Thousands of C. ft.
CLASS "A"—(TIMBER AND FUEL RESERVES).															
Meighat	73	7	...	66	146	...	140	...	...	140
Amraoti	1	1	3	8	5	...	...	...	...	...
Buldana	5	38	...	...	43	...	...	...	...	...
Yeshmal	19	60	2	...	81	...	...	...	...	...
Akola	8	168	1	...	177	...	...	...	...	...
Total	106	274	6	66	452	...	140	...	...	140
CLASS "C"—(PASTURE GROUNDS).															
Amraoti	1	...	...	1	...	...	...	...	...
Buldana	5	...	...	5	...	...	...	...	...
Yeshmal	5	10	4	...	19	...	...	...	...	...
Akola	1	1	...	2	...	...	...	...	...
Total	5	17	5	...	27	...	...	...	...	...
Total Berar excluding Nimar and Betul.	111	291	11	66	479	...	140	...	...	140
Figures of 1915-16	159	233	8	65	465	...	127	...	...	127
CLASS "A"—(PERMANENT RESERVES).															
Nimar	...	35	273	12	...	320	...	...	...	320	...	...	...	...	...
Betul	108	...	...	108	27	62	...	297	...	...	...	...	...
Total Nimar and Betul.	...	35	381	12	...	428	27	124	...	617	...	...	...	...	...
Figures of 1915-16	38	...	...	11	29	148	...	238	...	...	...	...	...
Total Berar Circle.	...	35	380	12	...	429	29	182	...	658	...	140	...	...	140
Total Central Provinces and Berar.

of Timber and Fuel during the year 1916-17 and Agency of Exploitation.—(Concl'd.)

Miscellaneous.					Total timber.					Fuel.					Total Output.	Remarks.
Government.	Purchasers.	Free Grantees.	Right holders.	Total.	Government.	Purchasers.	Free Grantees.	Right holders.	Total.	Government.	Purchasers.	Free Grantees.	Right holders.	Total.		
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	Thou- sands of C. ft.	
					73	147		66	286	8	129		524	661	947	
					1	1	3		5	4	329	18		351	356	
5	9	3		17	10	47	5		60	104	145	28		277	337	
					19	60	2		81	84	171		10	265	346	
					8	168	1		177	135	324	7		466	643	
4	9	5		17	111	423	9	66	609	335	1,098	53	534	2,020	2,629	
							1		1		36	1		37	38	
	8	10		18		13	10		23	72	96	24		120	143	
					5	10	4		19	4	162		188	354	373	
							1		2		46			46	48	
	8	10		18	5	25	15		45	4	340	25	188	557	602	
5	17	13		35	116	448	24	66	654	339	1,438	78	722	2,577	3,331	
7	12	5		24	166	272	13	65	616	184	1,386	499	733	2,802	3,418	
					36	272	12		320	62	800	22		954	1,274	
1	15	18		34	128	122	28		221	14	192	648		854	1,075	
1	15	18		34	54	457	30		541	76	992	740		1,808	2,349	
25	235	34		284	104	306	30		530	40	842	789		1,669	2,199	
6	33	31		69	170	905	24	66	1,195	415	2,420	321	344	3,380	5,166	
11	126	56		220	760	7,048	196	66	8,061	592	19,227	2,200	2,222	22,051	32,379	

Figures in parentheses are preliminary figures, being entered in column 33. Figures in column 33 are final figures, being entered in column 33. Figures in column 33 are final figures, being entered in column 33.

FORM NO. 20 —[PRESCRIBED]—*Outturn of Minor Forest Produce during the Forest year 1916-17.*

Division	Description of produce	Produce removed or utilized										Remarks.
		By Government Agencies		By purchasers.		By free grants		By right holders		Total.		
		Quantity.	Value	Quantity	Value	Quantity	Value	Quantity.	Value	Quantity.	Value.	
1	2	3	4	5	6	7	8	9	10	11	12	13
All the Divisions of the Northern Circle, Central Provinces.	NORTHERN CIRCLE.		Rs		Rs		Rs		Rs		Rs	
	I.—RESERVED FORESTS											
	Bamboo ... Tons	202	1 370	13,054	66 769	388	2 020	.	.	13,644	70,159	
	Do Lease	.	...		4 630	...	.	.	...	...	4,630	
	Do. .. Commutation			...	4 188		...	...	...	...	4 188	
	Grazing	"	"	.	4 25 889	.	9,905	...	...	..	4,35 794	
	Grass ... Tons	201	292	4,090	3 147	4 210	7,400	..	..	8,501	10 839	
	Do Lease		...	...	13,018		..			...	13,018	
	Do. .. Commutation	.	...		2,215	...		...	.	...	2,215	
	Harra ... Mds	8	5	8	4	.	.	..		16	9	
	Do. . Lease	..	..	...	18 301		...	.	...	...	18,301	
	Lac ... Tons	2	760		2	..	...	.	.	2	762	
	Do. .. Lease.	...	..	...	16,922	...	..	..	.	..	16,922	
	Mahua and Achar Tons	..	..	9	11	35	210	.	.	44	221	
	Do do Lease	..	.	.	5,448	...	.	..	...	...	5,448	
	Hide and horns ... Tons	1	252	...	12		...	...	..	..	264	
	Do do Lease	...	...	...	8,164	...	..	..	..	..	8,164	
	Other Minor Produce Tons	106	1,822	11,230	13,428	2,417	2,848	..	...	13,843	18,098	
	Do do. Lease	...	..	...	5,817	.	...	..	...	...	5,817	
	Do. do. Commutation	...	...	...	17 402	...	...	...	..	.	17,402	
	Mineral Products, Tons.	..	...	2,132	843	3,939	457	...	...	6,071	1,300	
	Do do. Cft	...	...	21,406	917		..	...	...	21,406	917	
	Do. do Lease		..	...	1,401	.	...	...	...	...	1,401	
	Kaltha ... "	..	...	...	3,333	.	...	...	...	...	3,333	
	Tekari and Babai grass "	...	...	...	1,424		...	...	...	...	1,424	
		Total	4,501	...	6,13,285	...	22 840	6,40,626
All Divisions of the Southern Circle, Central Provinces.	SOUTHERN CIRCLE.											
	I.—RESERVED FORESTS											
	Harra ... Tons	...	...	1,695	26,162	...	...	..	...	1,695	26,162	
	Lac ... "	1	1,472	106	5,226	...	...	...	...	107	6,398	
	Mahua and Achar. "	3	48	1,633	3,223	...	...	..	...	1,636	3,271	
	Hides and Horns. "	..	99	301	3,757	...	..	..	...	301	3,856	
	Bamboos ... No.	333,852	896	14,519,399	94,325	3,37,728	1,718	...	...	15,290,979	96,939	
	Fodder grass ... Tons	2,831	3,490	27,793	6,194	..	...	...	...	30,624	9,684	
	Thatching grass. "	305	709	98,523	59,101	1,932	3,271	...	...	100,760	63,081	
	Mineral Products. Cft.	...	...	42,994	503	357,571	2,317	...	...	400,565	2,820	

* Includes Rs. 5,810 granted free leases of birch grass to the Military Grass Farm, in the Banger Division.

FORM NO. 20 —[PRESCRIBED].—*Outturn of Minor Forest Produce during the Forest year 1916-17.*
—(Contd.)

Division.	Description of produce.	Produce removed or utilized.										Remarks.	
		By Government agency		By purchasers		By free grants		By right-holders.		Total.			
		Quantity	Value	Quantity.	Value	Quantity.	Value.	Quantity	Value.	Quantity.	Value.		
1	2	3	4	5	6	7	8	9	10	11	12	13	
All Divisions of the Southern Circle, Central Provinces —(Concid)	SOUTHERN CIRCLE.— (Concid)		Rs		Rs.		Rs		Rs.		Rs.		
	I.—RESERVED FORESTS— (Concid)												
	Other Minor ... Tons	61	699	20,456	16,408	614	860	...	.	21,131	17,967	
	Grazing Animals No.	...	..	709,569	2,25,132	13,095	8,146	...	...	722,664	2,33,278	
	Do of transit Cattle. "	.	...	100,907	12,218	..	...	..	...	100,907	12,218	
	Total ..	...	7,113	...	4,52,249	...	16,312	.	..	.	4,75,674	
	BERAR CIRCLE.												
	I—RESERVED FORESTS.												
	I—Class "A"—(Timber and Fuel Reserves.)												
	All Divisions of Berar proper.	Bamboos .. No.	27,438	985	35,06,844	50,700	790	14	262,100	3,931	3,797,172	55,630	
Fodder grass .. Tons		252	1,510	92,035	93,058	533	493	2,621	953	95,441	96,014		
Grazing cattle. No		.	...	(a) 288,681	(a) 2,29,909	18,039	14,617	375	375	307,095	2,44,901	
Rusa and *thatching grass. { Tons		109	199	1,197	1,060	61	209	...	.	1,567	1,468	
Lease. {		...	...	...	24,942	..	...	..	...	...	24,942	
Rusa oil ... Lbs.		...	..	182	250	...	..	...	...	182	250	
Lac ... { Lease		...	..	...	600	..	...	..	...	...	600	
Lbs. {		42	12	...	...	.	..	...	...	42	12	
Harra ... "		...	.	...	1,500	.	...	...	...	...	1,500	
Gum ... "		...	...	...	200	...	...	.	...	...	200	
Mineral pro- { Tons		...	...	4,218	1,345	3,953	518	...	...	8,171	1,863	
ducts. { Cft.		...	...	43,724	334	239,798	163	...	...	283,522	497	
Animal ... { T. lbs.		2	849	0	273	...	...	...	...	2	876	1,476
No {		377	366	161	247	...	.	...	...	538	613	
Miscellaneous ... { Tons		86	92	3,227	7,276	309	721	436	1,085	4,058	9,174		
Lease. {		...	...	...	210	...	..	..	...	...	210	
Total ..		...	4,013	...	4,12,258	...	16,735	...	6,344	...	4,39,350	
II.—Class "C"—(Pasture Grounds).													
		Bamboos ... No.	110,983	1,266	110,983	1,266	
	Fodder grass ... Tons.	...	...	320	343	5	14	...	...	325	357	
	Grazing cattle No.	...	...	(b) 977,534	(b) 3,34,506	206,145	1,03,068	...	...	1,183,679	4,37,574	
	Rusa grass ... Tons.	...	...	2	5	...	..	...	.	2	5	

(a) Transit cattle 7,595 revenue Rs. 739, and Buffaloes 4,199, revenue Rs. 3,159, and 600 horses Rs. 2,454, included.

(b) Excludes transit cattle 10,7167, revenue Rs. 814 and 10,552 nomadic sheep, revenue Rs. 7,322.

* Thatching grass value Rs. 209.

FORM NO. 20.—[PRESCRIBED].—*Outturn of Minor Forest Produce during the Forest year 1916-17.*—(Concl'd)

Division.	Description of produce.	Produce removed or utilized.										Remarks.	
		By Government agency.		By purchasers		By free-grants.		By right-holders.		Total.			
		Quantity.	Value	Quantity.	Value.	Quantity.	Value	Quantity.	Value	Quantity.	Value		
1	2	3	4	5	6	7	8	9	10	11	12	13	
All Divisions of Berar proper.—(Concl'd.)	BERAR CIRCLE— (Concl'd)		Rs		Rs.		Rs.		Rs		Rs.		
	I.—RESERVED FORESTS. (Concl'd)												
	II—Class "C" (Pasture Grounds).—(Concl'd.)												
	Rusa oil ... Lbs.	...	...	118	80	...	...	...	...	118	80	
	Mineral Pro- ducts { Cft	...	...	308 965	3,444	152,950	463	...	...	461,915	3,907	
	{ Tons	256	85	19,019	3 702	3,085	526	...	...	22,360	4,313	
	Animal Products Lbs	29	11	15	69	...	...	...	...	44	80	
	Miscellaneous produce Tons	51	57	2,794	6,934	1,602	2,404	...	...	4,447	9,395	
	Total	...	153	...	3,46,905	...	1,03,612	...	...	...	4,53,070	
	Total excluding Nimar and Betul	...	4,166	...	7,62,607	...	1,20,810	...	6,344	...	8 96,327		
Nimar and Betul Division.	I.—Class "A" (Permanent Reserves).												
	Bamboos ... No	38,113	899	4,017,017	54,321	199,665	1,317	...	...	4,254,795	56,537	
	Fodder grass . Tons	1,282	283	17,847	20,762	1,430	1,406	...	...	20,609	22,451	
	Grazing cattle .. No.	...	...	* 254,923	1,37,654	12,553	10,296	...	...	267,476	1,47,900	* Ex-
	Rusa grass .. Lease	...	...	...	7,695	...	...	...	...	...	7,695	cludes
	Lac ... "	...	...	...	880	...	...	...	...	...	880	transit
	Harra ... "	...	...	...	1,335	...	...	...	...	...	1,335	cattle
	Gum ... "	...	...	...	784	...	...	...	...	...	784	54,300
	Mahua ... "	...	...	...	1,154	...	52	...	...	...	1,206	and Re-
		T. lbs.		T. Lbs.								venue	
	Hides, horns and { Tons	1 418	443	0 1,380	3	...	...	...	...	1 1,798	446	Rs.
	{ case.	...	...	...	2,248	...	...	...	...	...	2,248	6,296.
	Minerals ... { Tons	...	...	118	44	...	...	...	...	118	44	
	{ Lease	...	...	...	281	...	...	...	...	...	281	
	Miscellaneous ... { Tons	...	124	1,681	894	539	1,153	...	...	2,220	2,171	
	{ Lease.	...	...	...	2,851	...	...	...	...	...	2,851	
	Commutation ...	...	...	...	3,137	...	...	...	...	...	3,137	
	Total	...	1 749	...	2,34,043	...	14,224	...	...	...	2,50,016	
	II—Class "B" (Avail- able for Agriculture).												
	Grazing cattle ... No.	...	...	289	49	...	...	...	...	289	49	
	Total	...	...	...	49	...	...	...	...	...	49	
	Total Nimar and Betul.	...	1,749	...	2,34,043	...	14,224	...	...	...	2,50,016	
	Total Berar Circle	...	5,915	...	9 46,699 (20 554)	...	1,37,434	...	6,344	...	11,46,392 (20,554)		
	GRAND TOTAL CENTRAL PROVINCES AND BERAR.	...	17,529	...	2 062,293 (20,554)	...	1,76,586	...	6,344	...	22,62,693 (20,554)		

* B.—Figures in bracket show value of transit and nomadic cattle.
Figures under right holders and free grantees are estimated only.

FORM NO. 21.—[PRESCRIBED] Account of timber and other produce cut or collected by Government agency and brought to depôts, sold locally, or otherwise disposed of during the year 1916-17.

Division		Balance at commencement of the year in forests and sale depôts	Received during the year	Total	Disposed of during the year	Balance in hand at close of the year in forests and sale depôts
1		2	3	4	5	6
NORTH INDIA						
NORTH INDIA CIRCLE						
TIMBER						
North Mandla	...	5,513	17,753	20,966	61,915	19,051
South Mandla	...	15,018	10,384	26,332	25,680	652
Jubbulpore-Narsinghpur	...	4,797	12,835	17,632	12,831	4,851
Damoh	...	170,819	7,710	178,529	175,438	3,091
Saugor	...	19,559	65,364	84,923	53,043	31,880
Hoshangabad	...	49,968	96,954	146,922	56,239	90,683
Seoni	...	6,166	39,186	45,352	35,562	9,790
Chhindwara	...	3,478	55,292	58,770	15,257	43,513
Total	...	324,348	315,128	639,476	435,965	203,511
FUEL						
North Mandla	...	2,430	1,755	4,185	2,670	1,515
South Mandla	...	...	850	850	850	...
Jubbulpore-Narsinghpur	...	9,245	20,715	29,960	15,450	14,510
Damoh	...	996,819	6,351	1,003,170	1,001,970	1,200
Saugor	...	11,785	36,354	48,139	19,999	28,140
Hoshangabad	...	44,100	43,310	87,410	59,335	27,875
Seoni	...	14,606	53,187	67,793	55,923	11,870
Chhindwara	...	20	58,883	58,903	1,980	56
Total	...	1,079,005	221,405	1,300,410	1,158,377	142,033
MINOR FOREST PRODUCE						
		Rs.	Rs.	Rs.	Rs.	Rs.
North Mandla	...	8	132	140	133	7
South Mandla	...	2,139	490	2,629	2,320	309
Jubbulpore-Narsinghpur	...	63	1,123	1,186	346	840
Damoh	...	381	87	468	402	66
Saugor	...	30	983	1,013	888	125
Hoshangabad	...	20	195	215	130	85
Seoni	...	9	285	294	226	68
Chhindwara	...	184	1,206	1,390	782	608
Total	...	2,834	4,501	7,335	5,227	2,108
				(Value).		

FORM NO. 21.—[PRESCRIBED].—Account of *timber and other produce cut or collected by Government agency and brought to depot, sold locally, or otherwise disposed of during the year 1916-17*—(Contd.)

Name of Division		Balance at commencement of the year in forests and sale depot	Received during the year	Total	Disposed of during the year	Balance in hand at close of the year in forests and sale depot
1		2	3	4	5	6
SOUTHERN CIRCLE.						
TIMBER						
Balaghat	...	3,100	3,870	7,223	4,917	2,306
Bhandara	...	3,093	6,176	9,269	6,000	3,269
Bilaspur	...	106	3,781	4,077	2,178	1,899
North Chanda	...	4,140	5,002	60,173	36,243	23,930
South Chanda	...	12,578	99,871	112,449	18,445	94,004
Nagpur-Wardha	...	917	7,379	6,696	7,418	5,278
North Raipur	...	16,213	52,256	63,489	18,422	50,067
South Raipur	...	2,452	46,671	49,053	14,390	34,663
Total		42,050	276,470	319,420	104,022	215,407
FUEL						
Balaghat	...	14,265	11,490	25,775	16,800	8,975
Bhandara	...	3,275	8,050	11,325	5,700	5,625
Bilaspur	...	250	100	350	225	125
North Chanda	...	21,800	220,828	242,727	135,148	107,579
South Chanda	...	..	750	750	750	..
Nagpur-Wardha	...	2,981	11,000	13,981	5,461	8,520
North Raipur	...	..	10,142	10,142	7,489	2,653
South Raipur	...	70	1,155	1,224	1,234	..
Total		42,660	263,515	306,184	172,897	133,287
MINOR FOREST PRODUCTS.						
		Rs.	Rs.	Rs.	Rs.	Rs.
Balaghat	...	265	664	929	594	335
Bhandara	...	37	753	790	695	95
Bilaspur	...	22	1,207	1,229	526	643
North Chanda	...	375	2,533	2,910	2,450	460
South Chanda	...	117	942	1,059	997	62
Nagpur-Wardha	...	6	265	271	231	40
North Raipur	...	143	85	228	190	38
South Raipur	...	132	662	794	788	6
Total		1,097	7,113	8,270	6,531	1,739

FORM NO 21 — [PRESCRIBED] — *Account of timber and other produce cut or collected by Government agency and brought to depôts, sold locally, or otherwise disposed of during the year 1916-17.* — (Concl'd.)

Name District			Balance at commencement of the year in forests and sale depôt	Received during the year	Total	Disposed of during the year	Balance in hand at close of the year in forests and sale depôts
1			2	3	4	5	6
BERAR CHILL			C. ft	C. ft	C. ft	C. ft	C. ft
Timber							
Melghat	..	..	6,640	73,132	79,781	75,073	3,806
Amraoti	..	..	540	1,300	1,840	1,100	740
Buldana	...	...	5,559	10,532	16,001	11,171	4,930
Yeotmal	...	...	21,252	10,654	40,906	27,934	17,072
Akola	...	...	..	8,170	8,170	7,770	400
Nimar	...	..	30,012	36,239	66,251	29,042	37,209
Betul	...	..	7,342	18,232	90,574	75,944	14,630
Total			136,354	167,259	303,613	223,934	79,679
FUEL.							
Melghat	..	..	80	7,744	7,824	7,104	720
Amraoti	...	...	8,980	3,460	12,440	11,480	960
Buldana	...	..	78,547	104,362	182,909	101,324	81,585
Yeotmal	...	...	54,112	95,600	149,712	88,368	61,344
Akola	...	...	500	135,125	135,625	125,000	10,625
Nimar	...	...	20,720	61,584	82,304	38,684	43,620
Betul	...	...	8,509	13,741	22,250	11,773	10,477
Total			171,448	421,616	593,064	383,733	209,331
MINOR FOREST PRODUCE.					Value.		
Melghat	...	...	Rs. 936	Rs. 2,606	Rs. 3,542	Rs. 2,648	Rs. 894
Amraoti	...	...	137	164	301	119	182
Buldana	...	...	38	339	377	342	35
Yeotmal	...	...	141	370	511	463	48
Akola	...	...	..	640	640	608	32
Nimar	...	...	150	4,254	4,404	4,160	244
Betul	...	...	478	22,081	22,559	21,656	903
Total			1,880	30,454	32,334	29,996	2,338
GRAND TOTAL CENTRAL PROVINCES AND BERAR.							
Timber Cft.			503,661	758,257	1,203,515	753,921	498,597
Fuel "			1,293,122	906,536	2,199,658	1,715,007	484,651
Other minor produce, Rs			5,811	42,068	47,879	41,754	6,125

FORM NO. 22.—[PRESCRIBED]—Abstract showing the value of Timber and other produce at sale Depôts for the year 1916-17.

Description of Timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value		Remarks.
	No	C t t	Value	No.	C t t	Value	In favour of the year.	Against the year.	
1	2	3	4	5	6	7	8	9	10
			Rs.			Rs.	Rs.	Rs.	
NORTHERN CIRCLE.									
Timber	324,348	13,994	..	203,511	11,228	..	2,765
Fuel	1,079 005	4,643	..	142,033	2,793	...	1,850
Minor produce	2,834	...	..	2,108	..	726
Total	21,471	...	..	16,129	...	5,342
SOUTHERN CIRCLE.									
Timber	8,426	7,052	..	22,414	15,745	8,693	..
Fuel	3,290	127	...	5,015	171	44	...
Minor produce	237	...	...	109	...	128
Total	11,716	7,416	...	27,429	16,025	8,609	...
GRAND TOTAL FOR CENTRAL PROVINCES AND BENAR.	28,887	...	..	32,154	8,609	5,342

FORM NO. 23.—[PRESCRIBED].—Abstract showing the value of live and dead-stock for the year 1916-17.

Description of live and dead-stock.	On hand at commencement of the year.		On hand at close of the year.		Difference in value		Remarks.
	No.	Value	No.	Value.	In favour of the year.	Against the year.	
1	2	3	4	5	6	7	8
NORTHERN CIRCLE.							
Elephant	6	Rs. 3,231	6	2,909	...	322	*Purchased.
Other live-stock	4	88	*6	172	84	...	
Dead-stock	...	1,34,935	...	1,47,760	12,825	..	
Total Northern Circle	...	1,38,254	...	1,50,841	12,587	...	
SOUTHERN CIRCLE.							
Elephant	8	16,600	8	16,100	...	500	
Other live-stock	12	470	12	510	40	...	
Dead-stock	...	2,92,743	...	2,75,994	...	16,749	
Total Southern Circle	...	3,09,813	..	2,92,604	...	17,209	
BERAR CIRCLE.							
LIVE-STOCK.							
Elephants	4	4,027	4	3,826	...	201	
Bullocks	10	489	10	466	...	23	
Total	14	4,516	14	4,292	...	224	
DEAD-STOCK.							
Buildings	...	1,98,299	...	2,03,743	5,444	...	
Mathematical and other drawing instruments	...	3,398	...	3,178	...	220	
Tools	...	7,921	...	6,998	...	923	
Furniture	...	15,787	...	14,662	...	1,125	
Tents	...	9,757	...	8,469	...	1,288	
Miscellaneous	...	8,548	...	11,200	2,652	...	
Total	...	2,43,712	...	2,48,250	4,538	...	
Total Berar Circle	...	2,48,226	...	2,52,549	4,323	...	
GRAND TOTAL CENTRAL PROVINCES AND BERAR	...	6,96,293	...	6,98,987	2,694	...	Net difference in favour of the year Rs. 2,694

FORM NO 22.—[PRESCRIBED]—Abstract showing the value of Timber and other produce at sale Depots for the year 1916-17.

Description of Timber and other produce.	On hand at commencement of the year			On hand at close of the year			Difference in value		Remarks
	N	C	Val	N	C	Val	In favour of the year	Against the year	
1			4	5		7	8	9	10
			R.			Rs.	R	Rs.	
NORTHERN CIRCLE									
Timber		324,348	13,994		203,511	11,228		2,705	
Fuel		1,079,005	4,643		142,033	2,793		1,850	
Minor produce			2834			2108		726	
Total			21,471			16,129		5,342	
SOUTHERN CIRCLE									
Timber	...	8,420	7,052	...	22,414	15,745	8,693		
Fuel	..	3,290	127	...	5,015	171	44	..	
Minor produce	...		237	...		109		128	
Total	...	11,716	7,416	..	27,419	16,025	8,609	...	
GRAND TOTAL FOR CENTRAL PROVINCES AND BERAR.			28,887	...		32,154	8,609	5,342	

FORM NO. 23 (Part Schedule I) — Abstract showing the value of live and dead-stock for the year 1916-17

Description of live and dead stock	On hand at commencement of the year		On hand at close of the year		Difference in value		Remarks.
	No.	Value	No.	Value	In favour of the year	Against the year	
1	2	3	4	5	6	7	8
NORTHERN CIRCLE							
Elephant	6	3,231	6	2,909	..	322	*Purchased.
Other live-stock	4	88	*6	172	84	..	
Dead-stock	...	1,34,935	...	1,47,760	12,825	...	
Total Northern Circle	...	1,38,254	...	1,50,841	12,587	...	
SOUTHERN CIRCLE.							
Elephant	8	16,600	8	16,100	..	500	
Other live-stock	12	470	12	510	40	..	
Dead-stock	...	2,92,743	..	2,75,994	...	16,749	
Total Southern Circle	...	3,09,813	..	2,92,604	..	17,209	
BERAR CIRCLE.							
LIVE-STOCK.							
Elephants	4	4,027	4	3,846	...	201	
Bullocks	10	489	10	466	...	23	
Total	14	4,516	14	4,292	...	224	
DEAD-STOCK.							
Buildings	...	1,98,299	...	2,03,743	5,444	...	
Mathematical and other drawing instruments	...	3,398	...	3,178	...	220	
Tools	...	7,921	...	6,998	..	923	
Furniture	...	15,787	...	14,662	..	1,125	
Tents	...	9,757	..	8,469	...	1,288	
Miscellaneous	...	8,548	..	11,200	2,652	..	
Total	...	2,43,710	...	2,48,250	8,096	3,556	
Total Berar Circle	...	2,48,226	...	2,52,542	8,096	3,780	Net difference is favour of the year Rs. 4,316.
GRAND TOTAL CENTRAL PROVINCES AND BERAR	...	6,96,293	...	6,95,987	20,683	...	

FORM NO 24 —[PRESCRIBED].—Summary of Revenue and Expenditure

Budget Heads.	Director Division.	Danish Division.	Seoni Division.	Hoshangabad, Division.
1	2	3	4	5
	Rs.	Rs.	Rs.	Rs.
NORTHERN CIRCLE.				
REVENUE.				
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—				
a. Timber	..	4,592	3,329	4,839
b. Firewood and charcoal	..	1,970	1,176	667
c. Bamboos	..	104	3	7
d. Sandal-wood	..	..	..	..
e. Grass and other minor produce	..	44	20	122
Total I		6,710	4,528	5,635
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS—				
a. Timber	..	14,755	15,145	1,31,456
b. Firewood and charcoal	..	5,636	10,648	19,344
c. Bamboos	..	1,916	15,128	22,037
d. Grazing and fodder Grass	..	74,463	70,007	24,330
e. Other minor produce	..	17,044	5,825	5,087
f. Other items	..	..	..	..
h. Commutation fees	..	198	150	578
Total II		1,12,614	1,16,993	2,02,732
III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE.				
Total III		2	3	87
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—				
a. Duty on foreign timber and other forest produce	..	..	..	..
b. Revenue from shared and private forests	..	..	..	..
Total IV		..	..	..
V.—MISCELLANEOUS—				
a.—Fines and forfeitures	..	100	98	..
b.—Refunds	..	184	140	310
c.—Other sources	..	47	6,494	4,015
Total V		49	7,557	6,732
GRAND TOTAL REVENUE		49	1,26,883	1,28,256
EXPENDITURE.				
A.—Conservancy and Works.				
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—				
a. Timber	..	155	..	135
b. Firewood and charcoal	..	3	..	..
c. Bamboos	..	..	..	6
d. Sandal-wood	..	..	..	..
e. Grass and other minor produce	..	252	32	310
Total A-I		410	32	451
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS.				
Total A-II		6,548	7,185	6,863
III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE.				
Total A-III		..	..	..
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—				
a. Duty on foreign timber and other forest produce	..	..	..	..
b. Revenue from shared and private forests	..	..	..	..
Total A-IV		..	..	..
V.—RENT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED BY GOVERNMENT.				
Total A-V		..	..	..

FORM No. 24.—[PRESCRIBED].—Summary of Revenue and Expenditure

Budget Heads	Direction Division.	Damoh Division.	Seoni Division	Hoshangabad Division.
1	2	3	4	5
	Rs.	Rs.	Rs.	Rs.
NORTHERN CIRCLE.—(Contd.)				
EXPENDITURE.—(Contd.)				
A.—Conservancy and Works.—(Contd.)				
VI.—LIVE STOCK, STORES, TOOLS AND PLANT—				
a. Purchase of cattle	89	...
b. Feed and keep of cattle	...	733	77	794
c. Purchase of stores, tools and plant	...	37	1,642	667
Total A-VI	...	770	1,808	1,461
VII.—COMMUNICATIONS AND BUILDINGS—				
a. Roads and bridges	2,325	10,522
b. Buildings	...	13,078	2,140	5,924
c. Other works	...	3,861	267	944
Total A-VII	...	18,945	4,732	17,390
VIII.—ORGANIZATION, IMPROVEMENT AND EXTENSION OF FORESTS—				
a. Demarcation	...	286	1,125	1,025
b. Cost of Forest Settlements; compensation for land and rights.	...	3	...	...
c. Surveys
d. Working plans
e. Sowing and planting	...	30	111	259
f. Protection from fire	...	7,778	5,328	7,498
g. Other works	...	257	1,406	5,354
Total A-VIII	...	8,344	7,970	14,136
IX.—MISCELLANEOUS—				
a. Law charges	...	79	...	...
c. Other charges	...	1,179	1,216	1,032
Total A-IX	...	1,258	1,216	1,032
TOTAL A.—CONSERVANCY AND WORKS	...	770	38,632	41,333
B.—Establishments.				
I.—SALARIES—				
a. Conservators	...	39,461	...	...
b. Superior officers	...	380	8,050	14,199
c. Subordinate forest and depot establishments	...	168	19,581	20,418
d. Office Establishments	...	10,310	4,815	5,137
e. Deputation and special allowances	...	3,954	...	1,402
f. Grain compensation allowance
Total B-I	...	34,273	32,447	41,136
II.—TRAVELLING ALLOWANCES—				
a. Conservators	...	2,451	...	...
b. Superior officers	...	45	1,449	2,176
c. Subordinate forest and depot establishments	...	26	2,450	3,243
d. Office establishments	...	542	258	309
Total B-II	...	3,064	4,137	5,828
III.—CONTINGENCIES—				
a. Stationery	...	3	38	87
b. Carriage of tents and records	...	1,382	800	898
c. Rents, rates and taxes	99	147
d. Pay of Police guards
e. Official postage	...	603	400	854
f. Sundries	...	2,159	1,190	1,097
Total B-III	...	4,147	2,527	3,017
TOTAL B.—ESTABLISHMENTS	...	41,484	39,111	50,001
GRAND TOTAL OF EXPENDITURE	...	42,254	77,793	91,334
SURPLUS OR DEFICIT	...	-42,205	49,180	1,21,445

of the different Divisions during the First year 1916-17.—(Contd.)

Jubbulpore-Narainpur Division.	Central Division.	Chhindvan Division.	Sugarcane Division.	South-Mandla Division.	Total.
6	7	8	9	10	11
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
					89
				743	4,424
507		507	534	796	8,877
870	787	249	1,042		
137	787	846	1,576	1,539	13,390
2114	900	568	1,695	1,313	32,515
1,165	1,158	4,654	1,863	5,687	26,472
191	248	393	111	527	5,168
3,090	2,306	5,615	3,669	7,527	64,155
	1,598	870	1,506	1,201	8,512
1,01			604		607
		96			96
			38		428
3,030	1,467	1,992	2,466	4,923	35,182
860	238	3,033	1,440	149	12,746
5,391	3,303	5,991	6,063	6,273	57,471
	1	151	46	286	563
1,016	530	993	1,030	1,150	8,146
1,016	531	1,144	1,076	1,436	8,709
16,980	13,498	18,965	18,254	23,606	1,95,001
					19,461
					79,737
10,237	5,726	11,187	12,705	4,893	1,57,268
21,592	15,876	17,677	25,449	16,482	50,026
5,980	4,091	4,937	4,745	5,253	5,602
	158		88		2
37,809	25,851	33,801	42,987	26,629	3,12,096
					2,451
					11,703
1,253	1,166	1,518	1,790	1,198	23,005
3,986	2,005	2,155	3,419	2,652	3,302
357	140	584	225	396	
5,596	3,311	4,257	5,434	4,246	40,551
					287
21	36	42	43	40	8,292
843	672	1,037	969	906	774
33	81	12	139	205	
					4,864
575	334	423	410	724	11,007
880	808	974	1,167	986	
2,352	1,931	2,488	2,728	2,851	25,314
45,757	31,093	40,546	51,149	33,736	377,961
62,737	44,591	59,511	69,403	57,342	5,72,962
14,190	61,170	73,908	49,286	58,396	4,45,539

FORM NO. 24.—[PRESCRIBED] — Summary of Revenue and Expenditure

Budget Heads.	Director Division	Balaghat Division	Balaghat School Division.	Bhandara Division
1	2	3	4	5
	R.	R.	R.	R.
SOUTHERN CIRCLE.				
REVENUE				
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—				
a. Timber	...	448	...	258
b. Firewood and charcoal	...	224	...	40
c. Bamboos	...	3	...	24
d. Sandal-wood
e. Grass and other minor	...	252	...	926
Total	...	927	...	1,248
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS.—				
a. Timber	...	50,621	...	38,887
b. Firewood and charcoal	...	15,300	...	24,089
c. Bamboos	...	2,027	...	13,401
d. Grazing and fodder grass	...	30,861	...	16,744
e. Other minor produce	...	31,269	...	15,991
f. Other items
g. Commutation fees	...	4,240	...	...
Total II	...	1,58,227	...	1,09,172
III.—DRIFT AND WASTE WOOD AND CONFISCATED FOREST PRODUCE.				
Total III	...	4	...	...
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—				
a. Duty on foreign timber and other forest produce
b. Revenue from shared and private forests
Total IV
V.—MISCELLANEOUS—				
a. Fines and forfeiture	...	208	...	85
b. Refunds	...	616	...	2
c. Other sources	...	14,816	4,121	4,483
Total V	...	15,640	4,125	4,570
GRAND TOTAL REVENUE	...	1,84,798	4,125	1,14,990
EXPENDITURE				
A.—Conservancy and works.				
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—				
a. Timber	...	549	...	8
b. Firewood and charcoal	...	61	...	...
c. Bamboos	16
d. Sandal-wood
e. Grass and other minor produce	...	172	...	353
Total A-I	...	782	...	377
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS.				
Total A-II	...	10,232	3.0	5,284
III.—DRIFT AND WASTE WOOD AND CONFISCATED FOREST PRODUCE.				
Total A-III	...	10,232	3.0	5,284
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—				
a. Duty on foreign timber and other forest produce
b. Revenue from shared and private forests
Total A-IV
V.—RENT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED BY GOVERNMENT.				
Total A-V

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FORM NO. 24 — [PRESCRIBED].—Summary of Revenue and Expenditure

Budget Heads	Direction Division	Balaghat Division	Balaghat School Division	Bhandara Division
1	2	3	4	5
	Rs	Rs	Rs	Rs
SOUTHERN.—(Concl'd.)				
EXPENDITURE —(Concl'd)				
1.—Conservancy and Works.—(Concl'd)				
VI.—LIVE-STOCK STORES, TOOLS AND PLANTS—				
a. Purchase of cattle	...	...	...	...
b. Feed and keep of cattle	208	1,825	145	515
c. Purchase of stores, tools and plant	193	308	329	136
Total A-VI	401	2,133	474	651
VII.—COMMUNICATIONS AND BUILDINGS—				
a. Roads and bridges	...	7,335	...	711
b. Buildings	...	3,484	...	545
c. Other works	...	962	334	379
Total A-VII	...	11,781	334	1,635
VIII.—ORGANIZATION, IMPROVEMENT AND EXTENSION OF FORESTS—				
a. Demarcation	...	1,813	...	120
b. Cost of Forest Settlements, compensation for land and rights	...	...	...	...
c. Surveys	...	...	...	...
d. Working plan	473	22	...	23
e. Sowing and planting	192	277	461	190
f. Protection from fire	...	6,449	...	2,857
g. Other works	...	1,868	3	375
Total A-VIII	665	10,429	464	3,565
IX.—MISCELLANEOUS—				
a. Law charges	...	1	...	...
c. Other charges	45	1,408	696	647
Total A-IX	45	1,409	696	647
TOTAL A.—CONSERVANCY AND WORKS	1,112	36,766	2,278	12,167
F.—Establishments.				
I.—SALARIES—				
a. Conservators	20,573	...	...	...
b. Superior officers	4,276	23,813	6,244	4,999
c. Subordinate forest and depot establishments	448	22,318	2,548	15,761
d. Office establishments	10,611	6,872	1,705	4,787
e. Deputation and special allowances	1,862	50	4,046	...
f. Grain compensation allowance	...	...	...	...
Total B-I	37,770	53,053	13,943	25,547
II.—TRAVELLING ALLOWANCES—				
a. Conservators	2,480	...	...	...
b. Superior officers	...	2,181	900	934
c. Subordinate forest and depot establishments	146	3,000	1,852	2,757
d. Office establishments	758	861	172	425
Total B-II	3,384	6,132	2,924	4,116
III.—CONTINGENCIES—				
a. Stationery	26	43	22	31
b. Carriage of tents and records	1,338	1,757	712	608
c. Rents, rates and taxes	379	4	...	11
d. Pay of police guards	...	...	...	...
e. Official postage	853	845	1	793
f. Sundries	2,117	1,981	1,204	1,055
Total B-III	4,713	4,630	1,939	2,498
TOTAL B.—ESTABLISHMENTS	45,867	63,815	18,806	32,156
GRAND TOTAL OF EXPENDITURE	46,979	1,00,581	21,084	44,323
SURPLUS OR DEFICIT	46,971	24,217	10,059	7,007

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FORM NO. 24 — [PRESCRIBED].—Summary of Revenue and Expenditure

Budget Heads	Direction Division.	Betul Division.	Buldana Division.
1	2	3	4
	Rs.	Rs.	Rs.
BERAR CIRCLE			
REVENUE.			
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—			
a. Timber	...	5,231	1,604
b. Firewood and charcoal	...	195	3,783
c. Bamboos	...	22	
d. Sandal-wood	...		
e. Grass and other minor produce	...	606	342
Total I		6,054	5,819
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS—			
a. Timber	...	68,310	9,583
b. Firewood and charcoal	...	3,604	11,211
c. Bamboos	...	28,105	7,019
d. Grazing and fodder grass	...	56,615	1,05,607
e. Other minor produce	...	11,932	3,128
f. Other items	...		
g. Commutation fees	...	2,591	
Total II		1,81,057	1,36,548
III.—DRIFT AND WASTE WOOD AND CONFISCATED FOREST PRODUCE			
		120	2
Total III		120	2
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—			
a. Duty on foreign timber and other forest produce	...		
b. Revenue from shared and private forests	...		
Total IV			
V.—MISCELLANEOUS—			
a. Fines and forfeitures	...		
b. Refunds	...	256	7
c. Other sources	229	6,689	10,863
Total V	229	6,945	10,870
GRAND TOTAL	229	1,94,185	1,53,239
EXPENDITURE.			
A.—Conservancy and Work.			
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—			
a. Timber	...	572	85
b. Firewood and charcoal	...		1,017
c. Bamboos	...		
d. Sandal-wood	...		
e. Grass and other minor produce	...	424	177
Total A-I		996	1,279
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS.			
		10,045	1,003
Total A-II		10,045	1,003
III.—DRIFT AND WASTE WOOD AND CONFISCATED FOREST PRODUCE			
Total A-III			
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—			
a. Duty on foreign timber and other forest produce	...		
b. Revenue from shared and private forests	...		
Total A-IV			
V.—RENT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED BY GOVERNMENT.			
Total A-V			

RESEARCH

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FORM NO. 24.—[PRESCRIBED.]—Summary of Revenue and Expenditure

Budget Heads	Direction Division.	Betul Division	Buldana Division.
1	2	3	4
	Rs	Rs	Rs.
BERAR CIRCLE —(Concl.)			
EXPENDITURE —(Concl.)			
A—Conservancy and Works.—(Concl.)			
VI.—LIVE STOCK, STORES TOOLS AND PLANT—			
a. Purchase of cattle
b. Feed and keep of cattle	..	170	..
c. Purchase of stores tools and plant	..	533	166
Total A-VI	877	703	166
VII.—COMMUNICATIONS AND BUILDINGS—			
a. Roads and bridges	..	19,266	1,873
b. Buildings	..	1,358	1,669
c. Other works	..	909	545
Total A-VII	..	21,533	4,087
VIII.—ORGANIZATION, IMPROVEMENT AND EXTENSION OF FORESTS—			
a. Demarcation	..	817	439
b. Compensation for land and rights	1,562
c. Surveys	3
d. Working-plans
e. Sowing and planting	..	3	163
f. Protection from fire	..	4,153	1,354
g. Other work	..	867	3,066
Total A-VIII	..	5,840	6,587
IX.—MISCELLANEOUS—			
a. Law charges	..	109	..
c. Other charges	..	834	639
Total A-IX	..	943	639
TOTAL A—CONSERVANCY AND WORKS	877	40,060	13,761
B—Establishments.			
I.—SALARIES—			
a. Conservators	..	20,400	..
b. Superior officers	..	12,404	9,700
c. Subordinate forest and depot establishments	..	24,744	14,274
d. Office establishments	..	5,790	4,992
e. Deputation and special allowances
f. Exchange compensation allowance
Total B-I	31,851	42,938	28,966
II.—TRAVELLING ALLOWANCES—			
a. Conservators	..	1,809	..
b. Superior officers	..	1,505	889
c. Subordinate forest and depot establishments	..	3,749	2,042
d. Office establishments	..	415	451
Total B-II	2,693	5,669	3,392
III.—CONTINGENCIES—			
a. Stationery	..	63	19
b. Carriage of tents and records	..	1,271	541
c. Rents, rates and taxes	..	15	435
d. Pay of Police guards
e. Official postage	..	533	614
f. Sundries	..	1,189	1,144
Total B-III	3,829	3,072	3,031
TOTAL B.—ESTABLISHMENTS	38,373	51,679	35,379
GRAND TOTAL OF EXPENDITURE	39,250	91,739	49,140
SURPLUS OR DEFICIT	-39,041	+1,02,445	+1,02,099

of the different Divisions during the Forest year 1916-17.—(Concl'd.)

Nimar Division.	Akola Division.	Yeotmal Division.	Melghat Division.	Amraoti Division.	Total.
5	6	7	8	9	10
Rs	Rs.	Rs.	Rs	Rs.	Rs.
37 1,450 57	...	1,150 325	1,253 289	...	37 4,892 1,645
1,544	9	1,475	1,542	248	6,564
3,043 2,825 425	436 2,676 780	2,412 1,090 1,133	5,356 9,567 616	5,074 4,966 250	33,760 24,151 4,658
7,193	3,892	4,635	15,539	10,290	67,169
1,363	700	672	370	...	4,361
...	...	...	15,558	...	27,120
...	152	721	4	61	941
...	...	589	...	4	593
36	3,041	559	57	37	2,896
6,167	1,155	250	6,522	684	20,485
1,886	2,623	3,491	4,568	...	16,501
9,652	6,671	6,222	27,079	786	62,897
221	...	...	10	1	341
2,125	560	1,131	1,369	647	7,305
2,346	560	1,131	1,379	648	7,546
33,061	18,362	28,079	49,212	17,605	2,01,017
...	...	...	...	...	20,400
18,591	8,250	13,392	19,950	11,700	93,089
30,746	9,678	30,203	26,656	11,488	1,47,915
8,530	4,744	6,191	6,419	4,308	49,384
1,800	53	2	3,848	91	8,708
...
59,669	22,725	49,787	56,873	27,387	3,40,396
...	...	...	...	...	1,809
1,246	942	1,655	1,692	1,463	8,494
5,147	1,844	3,738	3,879	2,068	22,598
821	525	399	720	874	4,558
7,214	3,311	5,792	6,191	4,007	36,259
87	60	41	410	18	784
1,553	875	1,592	1,839	715	8,475
84	120	10	167	79	911
...
683	377	708	239	580	4,386
1,214	1,084	1,771	1,139	784	12,128
3,621	2,516	4,128	3,814	2,094	26,099
70,504	28,552	59,701	66,878	33,588	3,84,754
1,03,565	46,914	87,780	1,16,090	51,493	5,85,721
+ 1,24,949	+ 1,28,210	+ 3,07,233	+ 41,801	+ 95,159	+ 8,64,876

FOREST DEPARTMENT OF THE
Annual Account Current for the

RECEIPTS.

	Amount			Amount.		
	Rs. a. p.			Rs. a. p.		
CASH BALANCE
VIII.—ASSESSED TAXES
Income tax—Deductions from salaries	3778	2	6
REVENUE DURING THE YEAR	10,25,194	13	7
XII—INTEREST	372	0	0
OTHER CIVIL HEAD (as detailed below)
S.B. Deposits—Bank Accounts—General Provident Fund	7,261	0	0
Personal Deposits—Lady Minto's Nursing Association Fund	27	0	0
FOREST DEPOSITS	1,477	5	0
Advances for Military Grass operations	95,834	7	11	...
ADVANCES RECOVERABLE
House Building Advances	350	0	0	...
Forest Advances	5,354	22	0	4
Objection Book Advances	3,218	4	8	...
Hutting Advances for Plague	230	2	8	...
Advances for purchase of Motor car	1,275	0	0	...
Total	6,36,329	15	7	6,36,329 15 7
CASH REMITTANCES—LOCAL—FOREST REMITTANCES—
Forest cheques drawn	6,65,521	5	10	...
Forest Remittances Miscellaneous	2,689	1	3	...
Inter Divisional Transfers	4,873	3	4	...
Discount on sale of Forest Stamps	32,031	8	11	...
Total	7,05,115	3	4	7,05,115 3 4
EXCHANGE ACCOUNT WITH OTHER GOVERNMENTS—
Account between India and Central Provinces	9,023	0	0
III.—Items adjustable by India General Provident Fund War Bonds 1920	30	0	0
IV.—Items adjustable by Central Provinces, Miscellaneous	5,004	15	2
Account between Central Provinces and Bengal
III.—Items adjustable by Miscellaneous	806	0	8
Account between Central Provinces and Bombay
III.—Items adjustable by Central Provinces Miscellaneous	1,805	13	0
IV.—Items adjustable by Bombay Miscellaneous	9,006	7	0
Account between Central Provinces and Bihar and Orissa	267	13	5
III.—Items adjustable by Central Provinces Miscellaneous
Account between Central Provinces and Military Supply	835	15	0
III.—Items adjustable by Civil
IV.—Items adjustable by Military Miscellaneous payments	3,395	4	0
Account between Central Provinces and Military
V.—Mhow Division—Miscellaneous payments
IV.—Items adjustable by Military	850	0	0
INTER—DEPARTMENTAL TRANSFERS—
P. W. Remittances. III Other Remittances	212	0	0
(a) Items adjustable by Public Works Department
Account between Central Provinces and Public Works Department.
Railway Branches I. M. Railway
IV.—Items adjustable by P. W. Department Miscellaneous I. M. Railway	120	0	0
Supplies Account. War Loan/ Subscription under the Bank of Bengal Scheme
Do. War Loan 1920—47	275	0	0
Do. War Bonds 1920	73	0	0
Post and Telegraph Department	721	12	6
Miscellaneous	88	12	0
GRAND TOTAL	34,12,073	4	3

[PRESCRIBED].

NORTHERN CIRCLE, CENTRAL PROVINCES.

Forest year 1916-17.

PAYMENTS.

	Amount.		Amount.	
	Rs. a p.		Rs. a p.	
I.—REFUNDS AND DRAWBACKS	1,976	11 10
EXPENDITURE DURING THE YEAR	578,655	7 9
OTHER CIVIL HEADS (as detailed below)
Refund and Drawbacks
Income-tax	0	3 4
S.B. Deposits—Bank Accounts General Provident Fund	8,039	13 8
FOREST DEPOSITS	1,468	11 0
ADVANCES RECOVERABLE—
House Building advance	...	120 0 0		
Forest Advances	...	5,39 168 4 2		
Objection Book Advances	...	2,618 0 0		
Hutting advances on account of plague	...	280 0 0		
Advances for Military Grass operations	...	95,677 14 11		
Total	...	6,37,864 3 1	6,37,864	3 1
CASH REMITTANCES—LOCAL—FOREST REMITTANCES
Remittances to Treasuries	...	4,80,592 10 10	...	...
Inter-Divisional Transfers	...	2,373 4 8	...	...
Forest stamps adjusted	...	5,24,148 12 2	...	...
Forest Remittances Miscellaneous	...	19 3 0	...	...
Total	...	10,07,133 14 8	10,07,133	14 8
EXCHANGE ACCOUNTS WITH OTHER GOVERNMENTS—
Account between India and Central Provinces
III.—Items adjustable by India Miscellaneous	2,138	13 6
IV.—Items adjustable by Central Provinces Miscellaneous	9	2 0
Account between Central Provinces and United Provinces
III.—Items adjustable by Central Provinces	10,447	11 5
Account between Central Provinces and Military and Rawalpindi Division
IV.—Items adjustable Military Emigrant advances	540	0 0
Account between Central Provinces and Military Supply Account
IV.—Items adjustable by Military miscellaneous payments	4,245	4 0
Account between Central Provinces and Military 5th Mhow Division
IV.—Items adjustable by Military Miscellaneous	1,52,233	1 0
INTER-DEPARTMENTAL TRANSFERS—
Public Works Department Remittances III—Other Remittances (a) Items adjustable by Public Works Department	1,000	1 6
Account between Central Provinces and Public Works Department, Railway Branch, I. M. Railway.
IV.—Items adjustable by Public Works Department Miscellaneous, I. M. Railway	240	0 0
GRAND TOTAL	24,12,073	4 9

FOREST DEPARTMENT OF THE

Annual Account Current for the

RECEIPTS.

	Amount.			Amount.		
	Rs.	a	p.	Rs.	a	p.
CASH BALANCE
III.—ASSESSED TAXES
Income Tax—Deductions from salaries	4,579	2	5
REVENUE DURING THE FOREST YEAR 1910-17	9,41,447	3	3
III.—INTEREST	741	8	11
OTHER CIVIL HEAD (as detailed below)	2,230	2	6
S.-B. Deposits—Bank Accounts—General Provident Fund	8,180	13	8
Personal Deposits—Lady Minto Nursing Association Fund	6	0	0
FOREST DEPOSITS	1,646	8	0
ADVANCES RECOVERABLE—
Advances for military grass operations	58,258	5	3	...
House Building Advances	220	0	0	...
Forest Advances	6,61,545	1	7	...
Objection Book Advances	4,881	8	0	...
Hunting Advances on account of Plague	1,126	8	0	7,26,030 6 10
SUSPENSE ACCOUNT—Presidency Bank Scheme War Bonds 1920 and 1922	180	0	0
CHEQUES AND BILLS—Forest Department Cheques	6,000	0	0
CASH REMITTANCES—LOCAL—FOREST REMITTANCES—
Forest cheques drawn	6,82,664	12	6	...
Revenue Remittances written back	2	0	0	...
Discount on sale of Forest Stamps	24,511	6	0	...
Inter-Divisional Transfers	5,982	15	1	...
Forest Remittances Miscellaneous	818	5	8	7,13,979 7 3
III.—Other Remittances Public Works Department Remittances	255	8	9
EXCHANGE ACCOUNT WITH OTHER GOVERNMENTS—
Account between India and Central Provinces
III.—Items adjustable by India	11,005	11	0	...
IV.—Items adjustable by Central Provinces	2,596	1	8	...
Account between Central Provinces and Bengal
III.—Items adjustable by Central Provinces	83	12	0	...
IV.—Items adjustable by Bengal
Account between Central Provinces and Bombay
III.—Items adjustable by Central Provinces	9,006	7	0	...
IV.—Items adjustable by ———
Accounts between Central Provinces and Burma
III.—Items adjustable by Central Provinces	101	15	2	...
Account between Central Provinces and United Provinces
III.—Items adjustable by Central Provinces	331	15	3	...
Account between Central Provinces and Bihar and Orissa
III.—Items adjustable by Central Provinces	476	9	0	...
IV.—Items adjustable by Bihar and Orissa	20	0	0	...
Account between Central Provinces and Military 5th Mhow Division	1,498	12	8	...
III.—Items adjustable by Central Provinces
IV.—Items adjustable by Military
Account between Central Provinces and Military 6th Poona Division
IV.—Items adjustable by Military	1,786	11	0	...
Account between Central Provinces and Military and Rawalpindi Division
IV.—Items adjustable by Military	430	11	10	...
Account between Central Provinces and Military Supply Accounts
III.—Items adjustable by Civil	1,042	8	6	28,381 3 1
INTER-DEPARTMENTAL TRANSFERS—
Public Works Department Ordinary Branches
" " Railway Branches
Military " Northern Circle
" " Eastern " "
" " Western " "
" " Secunderabad Division
" " Burma Division
" " Military Supply
Post and Telegraph Department	963	15	0	963 15 0
Mine Department
GRAND TOTAL	24,34,621 15 8

[PRESCRIBED] —(Contd.)

SOUTHERN CIRCLE, CENTRAL PROVINCES.

Forest year 1916-17

PAYMENTS.

	Amount		Amount.	
	Rs.	p.	Rs.	a. p.
1. REVENUE AND DRAWBACKS	1,343	8 0
EXPENDITURE DURING THE FOREST YEAR 1916-17	5,91,984	9 7
OTHER CIVIL HEADS (as detailed below) —				
S. B. Deposits—Bank Accounts—General Provident Fund...	881	6 5
Civil Deposits Trust interest fund ordinary	8	9 4
FOREST DEPOSITS	1,811	1 8
ADVANCES RECOVERABLE.—				
Advances for military grass operations	...	58,234	5 3	
House Building Advances
Forest Advances	...	6,55,727	14 5	
Objection Book Advances	...	4,883	8 0	
Hutting Advances on account of Plague	...	275	10 8	7,20,145 6 4
SUSPENSE ACCOUNT
CASH REMITTANCES—LOCAL—FOREST REMITTANCES—				
Remittances to Treasuries	...	5,01,069	10 7	
Forest Stamps adjusted	...	4,02,122	13 6	
Inter-Divisional Transfers	...	10,870	13 9	
Forest Remittances—Miscellaneous	...	39	3 4	9,14,102 9 2
III.—Other Remittances Public Works Department Remittances	240 12 5
EXCHANGE ACCOUNT WITH OTHER GOVERNMENTS—				
Account between India and Central Provinces
III.—Items adjustable by India	...	1,062	14 8	
IV.—Items adjustable by Central Provinces	...	38,946	2 0	
Account between Central Provinces and Bihar and Orissa
III.—Items adjustable by Central Provinces
IV.—Items adjustable by Bihar and Orissa	...	77	3 5	
Account between Central Provinces and Military 5th Mhow Division
III.—Items adjustable by Central Provinces
IV.—Items adjustable by Military Miscellaneous	...	1,63,416	13 10	
Account between Central Provinces and Military Supply Account
III.—Items adjustable by Central Provinces	...	1	8 6	
IV.—Items adjustable by ————
Account between Central Provinces and Burma
III.—Items adjustable by Central Provinces	...	6	13 7	
Accounts between Civil and Military 6th Poona Division
IV.—Items adjustable by Military Miscellaneous	...	78	0 0	4,03,589 2 0
INTER-DEPARTMENTAL TRANSFERS—				
P. W. Department, Ordinary Branches
" " Railway Branch
Military " Northern Circle
" " Eastern "
" " Western "
" " Secunderabad Division
" " Burma Division
" " Military Supply
Post and Telegraph Department
Mines Department
Total	24,34,067	6 11
CASH BALANCE	534 8 9
GRAND TOTAL	24,34,601	15 8

FOREST DEPARTMENT OF THE

Annual Account Current from

RECEIPTS.

	Amounts.			Amounts.		
	Rs.	a	p	R	a	p
CASH BALANCE ..	...			...
VIII.—ASSESSED TAXES ..	...			...
Income Tax—Deductions from same.	...			4,680	1	8
REVENUE DURING THE YEAR ..	...			14,50,547	5	5
XII.—INTEREST ..	...			333	10	8
OTHER CIVIL HEAD (as detailed below) ..	...			...
S. B. Deposits—Bank Accounts—General Provident Fund ..	8,710	0	0	...		
Personal Deposits—Lady Minto's Nursing Association Fund ..	21	0	0	8,731	0	0
FOREST DEPOSITS ..	...			3,947	14	7
ADVANCES RECOVERABLE ..	...			...
House Building Advances ..	6	0	0	...		
Forest Advances ..	66,791	3	4	...		
Objection Book Advances ..	4,083	14	8	...		
Hutting Advances on account of Plagu ..	409	11	2	...		
Advances for purchase of Motor car ..	2,111	1	8	...		
Advances on account of grass operations military ..	15,636	11	0	...		
Total ..	...			5,89,038	9	10
CASH REMITTANCES—LOCAL—FOREIGN REMITTANCES—	...			...
Forest cheques drawn ..	6,14,105	3	2	...		
Remittances Miscellaneous ..	425	13	3	...		
Inter-Divisional Transfer ..	5,941	13	9	...		
Discount on sale of Forest Stamps ..	4,710	15	6	6,37,583	13	8
Cheques and bills—Departmental Forest cheques ..	...			2,700	0	0
P. W. Remittances—III other Remittances—(d) Items adjustable by Public Works Department ..	...			1	1	8
Suspense on account of War loan—Subscription under the Presidency Bank Scheme—War bonds 1920.	...			155	0	0
Total ..	...			26,97,818	9	6
EXCHANGE ACCOUNT WITH OTHER GOVERNMENTS.—	...			...
Recoveries on account of War Bonds 1920 ..	340	0	0	...		
Recoveries on account of War bonds 1920 ..	20	0	0	...		
Account between India and Central Provinces ..	...			...
Forest Officer's Provident Fund ..	1,349	9	7	...		
U. S. F. P. Fund ..	409	3	0	...		
General Provident Fund Imperial ..	8,011	2	0	...		
Miscellaneous ..	2,939	12	4	13,069	10	11
Account between Central Provinces and Bombay ..	...			...
II.—Items adjustable by Central Provinces—Miscellaneous ..	1,593	5	3	1,593	5	3
Account between Central Provinces and Military ..	...			...
III.—Items adjustable by Military Supply Account Civil ..	518	2	0	518	2	0
Account between Central Provinces and Military 6th Poona Division ..	...			...
III.—Items adjustable by Central Provinces ..	...			...
IV.—Items adjustable by Military Miscellaneous Receipts ..	89	10	0	89	10	0
Account between India and Central Provinces ..	...			...
III.—Items adjustable by Central Provinces ..	...			...
IV.—Items adjustable by— ..	...			...
Total ..	...			...
INTER-DEPARTMENTAL TRANSFERS—	...			...
P. W. Department Ordinary Branches ..	...			...
" " Railway Branches ..	...			...
Military " Northern Circle ..	...			...
" " Eastern " ..	...			...
" " Western " ..	...			...
" " Secunderabad Division ..	...			...
" " Burma Division ..	...			...
" " Military Supply ..	...			...
Post and Telegraph Department ..	...			...
Marine Department ..	681	9	4	681	9	4
Total ..	...			...
GRAND TOTAL ..	...			27,13,779	15	6

[PRESCRIBED].—(Conclu.)

BERAR CIRCLE, CENTRAL PROVINCES

July 1916 to June 1917

PAYMENTS.

	Amount	Amount..
	R. a. p.	R. a. p.
I—REFUNDS AND PRAWDACKS FOREST ..		1,264 0 5
EXPENDITURE DURING THE YEAR		1,35,771 6 0
OTHER CIVIL HEADS (as detailed below)		...
S. B. Deposits—Bank Accounts—General Provident Fund..	2,524 0 0	2,524 0 0
FOREST DEPOSITS		4,023 3 10
ADVANCES RECOVERABLE		...
House Building Advances	30 0 0	
Forest Advances	5,78,205 2 1	
Objection Book Advances	4,262 10 3	
Hutting Advances on account of Plague	445 0 0	
Advances for Motor car	1,500 0 0	
Advances on account of grass operations military	15,636 11 0	
Total		6,00,999 7 9
CASH REMITTANCES—LOCAL—FOREST REMITTANCES—		
Remittances to Treasuries	12,27,435 1 4	
Forest Remittances Miscellaneous	101 0 0	
Inter-Divisional Transfers	7,862 0 0	
Forest stamps adjusted	2,8,989 0 0	
Total		14,60,482 5 4
EXCHANGE ACCOUNT WITH OTHER GOVERNMENTS		
Account between India and Central Provinces		
III.—Items adjustable by India		
IV.—Items adjustable by Central Provinces Miscellaneous	100 0 0	100 0 0
Account between Central Provinces and Military		
III.—Items adjustable by Central Provinces		
IV.—Items adjustable by 5th Mhow Division Military Miscellaneous payments	59,195 6 4	59,195 6 4
Account between Central Provinces and Military Supply Account		
Military Supply Account		
III.—Items adjustable by Central Provinces		
IV.—Items adjustable by Military	89 10 0	89 10 0
Account between Central Provinces and Military 6th Poona Division		
III.—Items adjustable by Central Provinces		
IV.—Items adjustable by Military Miscellaneous payments	89 10 0	89 10 0
Account between Central Provinces and		
III.—Items adjustable by Central Provinces		
IV.—Items adjustable by		
Total		
INTER-DEPARTMENTAL TRANSFERS,—		
P. W. Department Ordinary Branches		
" " Railway Branch		
I. M. Railway Miscellaneous	229 7 7	229 7 7
Military Department Northern Circle		
" " Eastern		
" " Western		
" " Secunderabad Division		
" " Burma Division		
" " Military Supply		
Post and Telegraph Department		
Marine Department		
Total		
CASH BALANCE		
GRAND TOTAL		27,19,770 15 0

ANNUAL FORM No 36.—Revenue received and outstandings on account of Revenue during the year 1916-17.

Division	Particulars	Outstanding at commencement of the year	Value of sales and other receipts during the year	Receipts	Amount paid during the year	Balance due to the department at end of year	Remarks
		1	2	3	4	5	6
NORTH CENTRAL CIRCLE							
Director	Miscellaneous		49 0 0	1 1 0 0	1 1 0 0		
North Mandla (a)	Timber and other produce	7 0 0	1,150 6 6	1 1 28 0 3	1,161 4 1 6	12,14 0 0	Column 6 includes the following— A—Amount deducted as correction or entries in the accounts B—Amount written off as irrecoverable
South Mandla (b)	Do	15,548 1 10	1,031 3 2	1 31 07 11 0	1,17,047 7 0	15,630 1 0	
Jubbulpore District (c)	Do	1 0 0 0	9 95 11 9	1 31 21 11 9	1 0 99 0 0	1 030 11 9	
Damoh (d)	Do	1 0 0 1 10	1,32 80 0 3	1 37 909 9 1	1 37,951 1 1	1 045 4 0	
Gaighat (e)	Do	0 50 0 0	1,402 5 0	1 21 112 0 0	1 19,760 0 0	1 672 0 0	
Hoshangabad (f)	Do	1 1 09 9 0	2 02 449 0 0	1 14 05 3 8	1 14,053 9 2	900 0 0	
Soni (g)	Do	7 7 0 0	1 0 11 5 0	1 31 70 12 0	1 31,25 1 0	1 1 0 0 0	
Chhindwar (h)	Do	8 3 3 0	1 10 21 1 0	1 44 1 0 0	1 15 45 0 11 6	0 225 5 0	
	Total	3 573 11 10	10 1 400 0 3	10 76 04 4 3	10 25 04 9 0	1 13 38 11 0	
SOUTHERN CIRCLE							
Director	Miscellaneous		3 4 0	8 4 0	3 4 0		
Balaghat	Timber and other produce	1 566 11 8	1 6 142 0 9	1 83 707 12 4	1 84 799 10 4	3 909 2 0	
Balaghat School	Miscellaneous		4 24 10 4	4 24 10 4	4 24 10 4		
Bhandara	Timber and other produce	1 770 8 0	1 11 870 12 8	1 19 641 4 5	1 14 969 12 8	4 651 6 0	
Bilaspur	Do		1 4 044 3 10	3 4 044 3 10	3 4 044 3 10		
North Chanda	Do	1 313 10 1	1 47 130 9 5	1 48 650 4 0	1 47 191 1 11	1 259 2 1	
South Chanda	Do	2 02 703 0 4	3 30 459 8 5	5 13 169 9 9	1 85 356 13 1	3 44 905 11 8	
Nagpur-Wardha	Do	8 017 11 0	1 03 20 10 10	1 11 331 5 10	1 03 750 10 10	7 580 11 0	
North Raipur	Do	3 46 8 0	52 072 10 1	5 2 159 2 1	5 2 304 2 1	55 0 0	
South Raipur	Do	3 084 2 10	8 226 12 2	9 3 209 15 6	9 1 072 10 2	1 137 5 4	
	Total	2 33 021 4 5	10 72 218 2 11	12 06 130 7 4	9 44 541 15 3	3 63 597 8 1	
BERAR CIRCLE							
Director	Sales of timber and other forest produce and miscellaneous sources		229 6 8	229 6 8	229 6 8		
Mehat	Do	512 6 6	1 68 422 10 8	1 68 035 1 2	1 57 890 14 11	11 044 2 3	
Amraoti	Do	20 0 0	1 70 073 5 4	1 70 031 5 4	1 44 452 0 0	25 581 5 4	
Balsona	Do	350 0 0	1 54 859 1 9	1 53 039 1 9	1 53 439 1 9		
Yestmal	Do		3 95 022 9 6	3 95 012 9 6	3 95 012 9 6		
Akola	Do		1 75 831 12 2	1 75 831 12 2	1 75 122 12 2	708 0 0	
Nimar	Do	33 14 0	2 28 770 8 3	2 28 804 6 3	2 28 313 15 3	200 7 0	
Metul	Do	1 310 0 0	1 05 772 1 5	1 07 122 1 5	1 04 184 2 5	2 037 0 0	
	Total	2 296 4 6	14 86 911 7 11	14 89 207 12 5	14 50 645 13 11	38 369 14 7	
TOTAL CENTRAL PROVINCES AND BERAR		2 94 791 4 9	35 76 630 2 2	38 77 421 9 0	34 47 864 6 20	46 459 2 1	

